

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 21:32:00 ; Search time 3.2454 Seconds
(without alignments)
3419.919 Million cell updates/sec

Title: US-09-939-853a-140

Perfect score: 20

Sequence: 1 ctggacaggttaggcttgg 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*

2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*

3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*

4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*

5: /cgn2_6/ptodata/2/ina/PTCUS_COMB.seq.*

6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15.8	79.0	99916	4	US-09-816-095-3
2	15.2	76.0	303	4	US-09-489-039A-4299
3	15.2	76.0	1515	4	US-09-071-035-431
4	15.2	76.0	1803	4	US-09-071-035-429
5	15.2	76.0	2481	4	US-09-134-000C-3193
6	15.2	76.0	2611	4	US-09-620-312D-925
7	15.2	76.0	3614	4	US-09-221-013A-9
8	15.2	76.0	48974	3	US-08-920-422-17
9	14.8	74.0	514	4	US-09-621-976-14354
10	14.8	74.0	2068	2	US-08-466-589-1
11	14.8	74.0	2068	2	US-08-700-636-1
12	14.8	74.0	2068	3	US-08-467-574-1
13	14.8	74.0	2068	4	US-09-217-345-1
14	14.8	74.0	2068	4	US-08-892-985-1
15	14.8	74.0	2277	1	US-08-436-855A-1
16	14.8	74.0	2277	4	US-08-487-596-1
17	14.8	74.0	2352	2	US-08-899-809A-21
18	14.8	74.0	2352	4	US-09-156-163A-21
19	14.8	74.0	2352	4	US-09-982-308B-21
20	14.8	74.0	2430	1	US-09-062-368-1
21	14.8	74.0	2664	4	US-08-660-451A-1
22	14.8	74.0	6268	4	US-08-566-321-57
23	14.8	74.0	18994	1	US-08-459-886-4
24	14.8	74.0	18994	2	US-08-282-696-4
25	14.4	72.0	34063	4	US-08-453-702B-96
26	14.4	72.0	36519	3	US-08-923-137-2
27	14.2	71.0	998	4	US-09-671-317-191

28	14.2	71.0	1299	4	US-09-404-641-80	Sequence 80, Appl
29	14.2	71.0	1298	4	US-09-404-641-69	Sequence 69, Appl
30	14.2	71.0	1398	4	US-09-328-352-2591	Sequence 2591, Ap
31	14.2	71.0	1572	4	US-09-620-312D-886	Sequence 886, Ap
32	14.2	71.0	1735	4	US-09-404-641-84	Sequence 84, Appl
33	14.2	71.0	1773	4	US-09-134-000C-1350	Sequence 1350, Ap
34	14.2	71.0	1799	4	US-09-732-234-5	Sequence 5, Appl
35	14.2	71.0	1799	4	US-09-784-859-5	Sequence 5, Appl
36	14.2	71.0	3588	4	US-09-620-312D-863	Sequence 863, App
37	14.2	71.0	41171	4	US-08-311-712A-122	Sequence 122, App
38	14.2	71.0	1664976	4	US-08-916-421B-1	Sequence 1, Appl
39	14.2	71.0	1664976	4	US-08-916-421B-1	Sequence 1, Appl
40	14	70.0	1326	4	US-09-328-352-3788	Sequence 3788, Ap
41	13.8	69.0	159	3	US-08-651-136C-47	Sequence 47, Appl
42	13.8	69.0	159	4	US-09-229-911A-47	Sequence 47, Appl
43	13.8	69.0	180	3	US-08-651-136C-69	Sequence 69, Appl
44	13.8	69.0	180	4	US-09-229-911A-69	Sequence 69, Appl
45	13.8	69.0	291	4	US-09-621-976-17092	Sequence 17092, A

ALIGNMENTS

RESULT 1
US-09-816-095-3
; Sequence 3, Application US/09816095
; Patent No. 6654084
; GENERAL INFORMATION:
; APPLICANT: GAN, Weiniu
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
; TITLE OF INVENTION: THERMOF
; FILE REFERENCE: CLO01147
; CURRENT FILING DATE: 2001-03-26
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 99916
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1).. (99916)
; OTHER INFORMATION: n = A,T,C or G
US-09-816-095-3

Query Match 79.0%; Score 15.8; DB 4; Length 99916;
Best Local Similarity 89.5%; Pred. No. 86;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 TGGACAGGTAGGCTTTG 20
Db 5532 TGGACAGATTAGGCTTTG 5550

RESULT 2

US-09-489-039A-4299/c
; Sequence 4299, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 4299
; LENGTH: 303
; TYPE: DNA

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; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-4299

Query Match          76.0%; Score 15.2; DB 4; Length 303;
Best Local Similarity 85.0%; Pred. No. 69;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGGACAGGTTAGGCTTTG 20
Db 250 CTGGACAGGTCAGACTTTG 231

RESULT 3
US-09-071-035-431
; Sequence 431, Application US/09071035
; Patent No. 6448043
; GENERAL INFORMATION:
; APPLICANT: Gil H. Choi
; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
; NUMBER OF SEQUENCES: 496
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071.035
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; FILING DATE:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: A. Anders Brooks
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: P8369P2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 431:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1515 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-09-071-035-431

Query Match          76.0%; Score 15.2; DB 4; Length 1515;
Best Local Similarity 85.0%; Pred. No. 89;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGGACAGGTTAGGCTTTG 20
Db 430 CTGGACAGGTCGGCTTTG 449

RESULT 4
US-09-071-035-429
; Sequence 429, Application US/09071035
; Patent No. 6448043
; GENERAL INFORMATION:
; APPLICANT: Gil H. Choi
; TITLE OF INVENTION: Enterococcus faecalis Polynucleotides and Polypeptides
; NUMBER OF SEQUENCES: 496
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071.035
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; FILING DATE:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: A. Anders Brooks
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: P8369P2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 431:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1515 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-09-071-035-431

Query Match          76.0%; Score 15.2; DB 4; Length 1803;
Best Local Similarity 85.0%; Pred. No. 92;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGGACAGGTTAGGCTTTG 20
Db 590 CTGGACAGGTCGGCTTTG 709

RESULT 5
US-09-134-000C-3193
; Sequence 3193, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 3193
; LENGTH: 2481
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
; US-09-134-000C-3193

Query Match          76.0%; Score 15.2; DB 4; Length 2481;
Best Local Similarity 85.0%; Pred. No. 97;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGGACAGGTTAGGCTTTG 20
Db 687 CTGGACAGGTCGGCTTTG 706

RESULT 6
US-09-620-312D-925
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; Sequence 925, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yunqing
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Polypeptides
; TITLE OF INVENTION: Nucleic Acids and
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: PCT_Files Version 1.0
; SEQ ID NO 925
; LENGTH: 2611
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (290)..(1885)
; US-09-620-312D-925

Query Match      76.0%; Score 15.2; DB 4; Length 2611;
Best Local Similarity 85.0%; Pred. No. 98;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGACAGGTTAGGGCTTTG 20
Db 789 CTGAACAGATTAGGCTTTG 808

RESULT 7
US-09-221-013A-9/c
; Sequence 9, Application US/09221013A
; Patent No. 6495740
; GENERAL INFORMATION:
; APPLICANT: Arioli, Antonio
; APPLICANT: Williamson, Richard E.
; APPLICANT: Betzner, Andreas S.
; APPLICANT: Peng, Liangcai
; TITLE OF INVENTION: Manipulation of cellulose and/or Beta-1,4-glucan
; FILE REFERENCE: 96-98
; CURRENT APPLICATION NUMBER: US/09/221,013A
; CURRENT FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: PCT/AU97/00402
; PRIOR FILING DATE: 1997-06-24
; PRIOR APPLICATION NUMBER: AU P00699
; PRIOR FILING DATE: 1996-06-27
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 3614
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; FEATURE:

; NAME/KEY: CDS
; LOCATION: (217)..(3411)
; US-09-221-013A-9

Query Match      76.0%; Score 15.2; DB 4; Length 3614;
Best Local Similarity 85.0%; Pred. No. 1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGGACAGGTTAGGGCTTTG 20
Db 1600 CAGGACATTTTAGGGCTTTG 1581

RESULT 8
US-08-920-422-17/c
; Sequence 17, Application US/08920422A
; Patent No. 6255473
; GENERAL INFORMATION:
; APPLICANT: Vitek, Michael P.
; APPLICANT: Mitsuda, No. 6255473iaki
; APPLICANT: Roses, Allen D.
; TITLE OF INVENTION: Presenilin-1 Gene Promoter
; FILE REFERENCE: VITEKPRESENTIN
; CURRENT APPLICATION NUMBER: US/08/920,422A
; CURRENT FILING DATE: 1997-08-29
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 48974
; TYPE: DNA
; ORGANISM: Mus musculus
; US-08-920-422-17

Query Match      76.0%; Score 15.2; DB 3; Length 48974;
Best Local Similarity 85.0%; Pred. No. 1.6e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTGACAGGTTAGGGCTTTG 20
Db 33769 CTGGCCAGGATAGGGCTGTG 33750

RESULT 9
US-09-621-976-14354/c
; Sequence 14354, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 14354
; LENGTH: 514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 254_feature
; OTHER INFORMATION: n=a, g, c or t
; US-09-621-976-14354

Query Match      74.0%; Score 14.8; DB 4; Length 514;
Best Local Similarity 88.9%; Pred. No. 1.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 GGACAGGTTAGGGCTTTG 20
Db 311 GGACAGGTTAGGGCTTTG 294
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;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/028,031
;; FILING DATE: March 8, 1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Seidman, Stephanie L
;; REGISTRATION NUMBER: 33,779
;; REFERENCE/DOCKET NUMBER: 6362-9949
;; TELEPHONE: 619-238-0999
;; TELEFAX: 619-238-0062
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 2068 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: both
;; TOPOLOGY: both
;; MOLECULE TYPE: cDNA
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 166..1752
US-08-467-574-1

Query Match 74.0%; Score 14.8; DB 3; Length 2068;
Best Local Similarity 88.9%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 3 GGACAGGTTAGGGCTTTG 20
Db 144 GGTGAGTCAGGGCTTTG 127

RESULT 13
US-09-217-345-1/c
; Sequence 1, Application US/09217345
; Patent No. 6303753
; GENERAL INFORMATION:
; APPLICANT: Elliot, Kathryn J.
; APPLICANT: Ellis, Steven B.
; APPLICANT: Harpold, Michael M.
; TITLE OF INVENTION: HUMAN NEURONAL NICOTINIC ACETYLCHOLINE
; TITLE OF INVENTION: RECEPTOR COMPOSITIONS AND METHODS EMPLOYING SAME
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Heller Ehrman White & McAuliffe
; STREET: 4250 Executive Square, 7th Floor
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/217,345
; FILING DATE: 21-DEC-98
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/467,574
; FILING DATE: 05-JUN-95
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/466,589,
; FILING DATE: 05-JUN-95
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/028,031
; FILING DATE: 08-MAR-93
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie L
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 24735-9949B
; TELEPHONE: 619-450-8400

;; TELEFAX: 619-587-5360
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 2068 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: both
;; TOPOLOGY: both
;; MOLECULE TYPE: cDNA
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 166..1752
US-09-217-345-1

Query Match 74.0%; Score 14.8; DB 4; Length 2068;
Best Local Similarity 88.9%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 3 GGACAGGTTAGGGCTTTG 20
Db 144 GGTGAGTCAGGGCTTTG 127

RESULT 14
US-09-892-985-1/c
; Sequence 1, Application US/09892985
; Patent No. 6664375
; GENERAL INFORMATION:
; APPLICANT: Elliot, Kathryn J.
; APPLICANT: Ellis, Steven B.
; APPLICANT: Harpold, Michael M.
; TITLE OF INVENTION: HUMAN NEURONAL NICOTINIC ACETYLCHOLINE
; TITLE OF INVENTION: RECEPTOR COMPOSITIONS AND METHODS EMPLOYING SAME
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Heller Ehrman White & McAuliffe
; STREET: 4250 Executive Square, 7th Floor
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/892,985
; FILING DATE: 27-Jun-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/217,345
; FILING DATE: 21-DEC-98
; APPLICATION NUMBER: US 08/467,574
; FILING DATE: 05-JUN-95
; APPLICATION NUMBER: US 08/466,589,
; FILING DATE: 05-JUN-95
; APPLICATION NUMBER: US 08/028,031
; FILING DATE: 08-MAR-93
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie L
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 24735-9949B
; TELEPHONE: 619-450-8400
; TELEFAX: 619-587-5360
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2068 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA

Search completed: February 20, 2004, 01:45:09
Job time : 6.2454 secs

FEATURE:
NAME/KEY: CDS
LOCATION: 166..1752
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-892-985-1
Query Match 74.0%; Score 14.8; DB 4; Length 2068;
Best Local Similarity 88.9%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 3 GGACAGGTAGGGCTTTG 20
DB 144 GGTCAGGTCAGGGCTTTG 127

RESULT 15
US-08-496-855A-1/C
; Sequence 1, Application US/08496855A
; Patent No. 5801232
; GENERAL INFORMATION:
; APPLICANT: Elliot, Kathryn J.
; APPLICANT: Ellis, Steven B.
; APPLICANT: Harpold, Michael M.
; TITLE OF INVENTION: HUMAN NEURONAL NICOTINIC ACETYLCHOLINE
; TITLE OF INVENTION: RECEPTOR COMPOSITIONS AND METHODS EMPLOYING SAME
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Brown, Martin, Haller & McClain
; STREET: 1660 Union Street
; CITY: San Diego
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 92101-2926
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/496,855A
; FILING DATE: 20-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08-NOV-1993
; FILING DATE: 08-NOV-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/028,031
; FILING DATE: 08-MAR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6362-9369B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0999
; TELEFAX: 619-238-0062
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2277 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 166..1755
US-08-496-855A-1

Query Match 74.0%; Score 14.8; DB 1; Length 2277;
Best Local Similarity 88.9%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 3 GGACAGGTAGGGCTTTG 20
DB 144 GGTCAGGTCAGGGCTTTG 127

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 23:23:34 ; Search time 48.0735 Seconds
(without alignments)
1456.787 Million cell updates/sec

Title: US-09-939-853A-140
Perfect score: 20
Sequence: 1 cttgacaggttaggctttg 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2308684 seqs, 1750822206 residues

Total number of hits satisfying chosen parameters: 4617369

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	20	100.0	444	9	US-09-867-550-951 Sequence 951, App
C 2	20	100.0	763	9	US-09-867-550-953 Sequence 953, App
C 3	20	100.0	864	10	US-09-814-353-21302 Sequence 21302, A
C 4	17.4	87.0	422	15	US-10-242-535A-25371 Sequence 25371, A
5	16.8	84.0	665	15	US-10-027-632-133814 Sequence 133814, A
C 6	16.8	84.0	2305	15	US-10-094-745-795 Sequence 795, App
C 7	16.8	84.0	2424	15	US-10-027-632-103042 Sequence 103042, A
C 8	16.8	84.0	2424	15	US-10-027-632-103043 Sequence 103043, A
C 9	16.8	84.0	3559	15	US-10-108-260A-602 Sequence 602, App
10	15.8	79.0	403	10	US-09-918-995-35904 Sequence 35904, A
11	15.8	79.0	457	10	US-09-918-995-27228 Sequence 27228, A
12	15.8	79.0	570	15	US-10-027-632-137211 Sequence 137211, A
13	15.8	79.0	663	15	US-10-027-632-208024 Sequence 208024, A
14	15.8	79.0	1152	10	US-09-882-227-295 Sequence 295, App
15	15.8	79.0	1744	12	US-10-424-599-121358 Sequence 121358, A

16	15.8	79.0	1824	12	US-10-424-599-73670 Sequence 73670, A
17	15.8	79.0	4170	10	US-09-919-039-221 Sequence 221, App
18	15.8	79.0	4170	14	US-10-168-425-223 Sequence 23, Appl
19	15.8	79.0	4359	15	US-10-191-803-341 Sequence 341, App
20	15.8	79.0	24023	13	US-10-094-679-1 Sequence 1, Appli
21	15.8	79.0	99916	9	US-09-816-095-3 Sequence 3, Appli
22	15.4	77.0	673	9	US-09-917-800A-1299 Sequence 1299, Ap
23	15.4	77.0	761	15	US-10-027-632-144930 Sequence 144930, A
24	15.4	77.0	786	15	US-10-027-632-169995 Sequence 169995, A
25	15.4	77.0	786	15	US-10-027-632-169996 Sequence 169996, A
26	15.4	77.0	978	15	US-10-027-632-121171 Sequence 121171, A
C 27	15.4	77.0	978	15	US-10-027-632-121172 Sequence 121172, A
28	15.4	77.0	2067	14	US-10-101-510-405 Sequence 405, App
29	15.4	77.0	3685	14	US-10-025-567A-610 Sequence 610, App
C 30	15.4	77.0	4112	10	US-09-930-213-301 Sequence 301, App
31	15.4	77.0	136726	15	US-10-085-117-244 Sequence 244, App
C 32	15.2	76.0	309	9	US-09-836-607-7 Sequence 7, Appli
C 33	15.2	76.0	309	10	US-09-421-112-7 Sequence 7, Appli
C 34	15.2	76.0	320	14	US-10-106-698-3422 Sequence 3422, Ap
C 35	15.2	76.0	430	9	US-09-764-869-408 Sequence 408, App
C 36	15.2	76.0	430	14	US-10-091-504-408 Sequence 408, App
C 37	15.2	76.0	430	15	US-10-227-577-408 Sequence 408, App
C 38	15.2	76.0	468	9	US-09-836-607-34 Sequence 34, Appl
C 39	15.2	76.0	468	10	US-09-421-112-34 Sequence 34, Appl
C 40	15.2	76.0	472	10	US-09-918-995-20214 Sequence 20214, A
C 41	15.2	76.0	475	10	US-09-918-995-1752 Sequence 1752, Ap
C 42	15.2	76.0	478	10	US-09-918-995-32374 Sequence 32374, A
C 43	15.2	76.0	547	15	US-10-027-632-36047 Sequence 36047, A
C 44	15.2	76.0	547	15	US-10-027-632-61127 Sequence 61127, A
C 45	15.2	76.0	547	15	US-10-027-632-303041 Sequence 303041, A

ALIGNMENTS

RESULT 1
US-09-867-550-951/c
; Sequence 951, Application US/09867550
; Patent No. US20020082206A1
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Mehraban, Fuad,
; APPLICANT: Conley, Pamela
; APPLICANT: Law, Debbie
; APPLICANT: Topper, James
; TITLE OF INVENTION: No. US20020082206A1el Polynucleotides from Atherogenic Cells and f
; FILE REFERENCE: 21402-013 (Cura-313)
; CURRENT APPLICATION NUMBER: US/09/867,550
; CURRENT FILING DATE: 2001-09-20
; PRIOR APPLICATION NUMBER: USSN 60/208,427
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 2125
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 951
; LENGTH: 444
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-867-550-951

Query Match 100.0%; Score 20; DB 9; Length 444;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGACACAGGTAGGGCTTTG 20
|||||
Db 60 CTGACACAGGTAGGGCTTTG 41

RESULT 2
US-09-867-550-953/c
; Sequence 953, Application US/09867550
; Patent No. US20020082206A1

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; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Mehraban, Fued,
; APPLICANT: Conley, Pamela
; APPLICANT: Law, Debbie
; APPLICANT: Topper, James
; TITLE OF INVENTION: No. US20020082206A1el Polynucleotides from Atherogenic Cells and
; TITLE OF INVENTION: Thereby
; FILE REFERENCE: 21402-013 (Cura-313)
; CURRENT APPLICATION NUMBER: US/09/867,550
; CURRENT FILING DATE: 2001-09-20
; PRIOR APPLICATION NUMBER: US/09/867,550
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 2125
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 953
; LENGTH: 763
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-867-550-953

Query Match      100.0%; Score 20; DB 9; Length 763;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGGACAGGTTAGGCGCTTG 20
Db 189 CTGGACAGGTTAGGCGCTTG 170

RESULT 3
US-09-814-353-21302/c
; Sequence 21302, Application US/09814353
; Publication No. US2003016583A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21302
; LENGTH: 864
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1, 2, 3, 32, 862, 863, 864
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-21302

Query Match      100.0%; Score 20; DB 10; Length 864;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CTGGACAGGTTAGGCGCTTG 20

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Db 353 CTGGACAGGTTAGGCGCTTG 334

RESULT 4
US-10-242-535A-25371
; Sequence 25371, Application US/10242535A
; Publication No. US20040013663A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2005
; CURRENT APPLICATION NUMBER: US/10/242,535A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 10/085,783
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatcIn version 3.2
; SEQ ID NO 25371
; LENGTH: 422
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (5)..(5)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (7)..(7)
; OTHER INFORMATION: n is a, c, g, or t
; NAME/KEY: misc_feature
; LOCATION: (406)..(406)
; OTHER INFORMATION: n is a, c, g, or t
US-10-242-535A-25371

Query Match      87.0%; Score 17.4; DB 15; Length 422;
Best Local Similarity 94.7%; Pred. No. 24;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CTGGACAGGTTAGGCGCTTT 19
Db 61 CTGGACAGGTTAGGCGCTTT 79

RESULT 5
US-10-027-632-133814
; Sequence 133814, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23

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; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 133814
; LENGTH: 665
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-133814

Query Match 84.0%; Score 16.8; DB 15; Length 665;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGCACAGGTTAGGGCTTTG 20
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Db 344 CTGCACAGGATAGGCTGTG 363

RESULT 6
US-10-094-749-795/c
; Sequence 795, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NACHIKO
; APPLICANT: YOSHUKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOTYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 795
; LENGTH: 2305
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-094-749-795

Query Match 84.0%; Score 16.8; DB 15; Length 2305;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGCACAGGTTAGGGCTTTG 20
|||||
Db 2118 CTGCACAGTTAGGGCTGTG 2099

RESULT 7
US-10-027-632-103042/c
; Sequence 103042, Application US/10027632
; Publication No. US20030204075A9

; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 103042
; LENGTH: 2424
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-103042

Query Match 84.0%; Score 16.8; DB 15; Length 2424;
Best Local Similarity 90.0%; Pred. No. 53;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CTGCACAGGTTAGGGCTTTG 20
|||||
Db 1453 CTGCACAGTTAGGGCTGTG 1434

RESULT 8
US-10-027-632-103043/c
; Sequence 103043, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 103043
; LENGTH: 2424
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-103043

Query Match 84.0%; Score 16.8; DB 15; Length 2424;
Best Local Similarity 90.0%; Pred. No. 53;

Matches 18; Conservative 0; Mismatches 2; Indels 2; Gaps 0;

QY 1 CTGACACAGTTAGGCTTTG 20
Db 1453 CTGACACAGTTAGGCTGTG 1434

RESULT 9

US-10-108-260A-602/c
; Sequence 602, Application US/10108260A
; Publication No. US20040005560A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. US20040005560A1 full length cDNA
; FILE REFERENCE: HI-A0106
; CURRENT APPLICATION NUMBER: US/10/108,260A
; CURRENT FILING DATE: 2002-03-27
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 602
; LENGTH: 3559
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-108-260A-602

Query Match 84.0%; Score 16.8; DB 15; Length 3559;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTGACACAGTTAGGCTTTG 20
Db 32 CTGACACAGTTAGGCTTTG 13

RESULT 10

US-09-918-995-35904
; Sequence 35904, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35904
; LENGTH: 403
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(403)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-35904

Query Match 79.0%; Score 15.8; DB 10; Length 403;
Best Local Similarity 89.5%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTGACACAGTTAGGCTTT 19
Db 48 CTGACACAGTTAGGCTTT 66

RESULT 11

US-09-918-995-27228
; Sequence 27228, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:

; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 27228
; LENGTH: 467
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(467)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-27228

Query Match 79.0%; Score 15.8; DB 10; Length 467;
Best Local Similarity 89.5%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTGACACAGTTAGGCTTT 19
Db 152 CTGACACAGTTAGGCTTT 170

RESULT 12

US-10-027-632-137211
; Sequence 137211, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137211
; LENGTH: 570
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-137211

Query Match 79.0%; Score 15.8; DB 15; Length 570;
Best Local Similarity 89.5%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTGACACAGTTAGGCTTT 19
Db 301 CAGGACAGATTAGGCTTT 319

RESULT 13

US-10-027-632-208024

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 21:21:18 ; Search time 113.831 Seconds
(without alignments)
9899.970 Million cell updates/sec

Title: US-09-939-853a-141

Perfect score: 26
Sequence: 1 cttcttggaagtctgccagtgccctt 26

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : GenEmbl.*

- 1: gb.ba.*
- 2: gb.htg.*
- 3: gb.in.*
- 4: gb.om.*
- 5: gb.ov.*
- 6: gb.pat.*
- 7: gb.ph.*
- 8: gb.pl.*
- 9: gb.pr.*
- 10: gb.ro.*
- 11: gb.sts.*
- 12: gb.sy.*
- 13: gb.un.*
- 14: gb.vi.*
- 15: em.ba.*
- 16: em.fun.*
- 17: em.hum.*
- 18: em.in.*
- 19: em.mu.*
- 20: em.om.*
- 21: em.or.*
- 22: em.ov.*
- 23: em.pat.*
- 24: em.ph.*
- 25: em.pl.*
- 26: em.ro.*
- 27: em.sts.*
- 28: em.un.*
- 29: em.vi.*
- 30: em.htg.hum.*
- 31: em.htg.in.*
- 32: em.htg.other.*
- 33: em.htg.mus.*
- 34: em.htg.pln.*
- 35: em.htg.rod.*
- 36: em.htg.mam.*
- 37: em.htg.vrt.*
- 38: em.sy.*
- 39: em.htgo.hum.*
- 40: em.htgo.mus.*
- 41: em.htgo.other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	26	100.0	26	6	AX443200	AX443200 Sequence
2	26	100.0	1183	6	AX443133	AX443133 Sequence
3	26	100.0	1183	6	AX443135	AX443135 Sequence
4	26	100.0	2538	9	BC042041	BC042041 Homo sapi
5	26	100.0	2567	6	AX452880	AX452880 Sequence
6	26	100.0	2788	6	AX780857	AX780857 Sequence
7	26	100.0	66741	9	HS460J8	AL031662 Human DNA
8	26	100.0	145833	2	AC026539	AC026539 Homo sapi
9	21.2	81.5	177004	2	AC129114	AC129114 Rattus no
10	21.2	81.5	179497	9	AC020636	AC020636 Homo sapi
11	21.2	81.5	259967	2	AC105625	AC105625 Rattus no
12	21.2	81.5	261492	2	AC095338	AC095338 Rattus no
13	20.8	80.0	76332	2	AC021312	AC021312 Homo sapi
14	20.8	80.0	184541	9	AC011405	AC011405 Homo sapi
15	20.4	78.5	120194	9	AL355474	AL355474 Human DNA
16	20.4	78.5	157289	2	AC021447	AC021447 Homo sapi
17	20.4	78.5	183132	9	AC025038	AC025038 Homo sapi
18	20.2	77.7	1617	8	AK071089	AK071089 Oryza sat
19	20.2	77.7	2808	8	AK072171	AK072171 Oryza sat
20	20.2	77.7	110000	2	AC106661	Continuation (3 of
21	20.2	77.7	110000	2	AC127890	Continuation (3 of
22	20.2	77.7	130616	2	AP003950	AP003950 Oryza sat
23	20.2	77.7	139848	2	AP004335	AP004335 Oryza sat
24	20.2	77.7	148542	8	AP005127	AP005127 Oryza sat
25	20.2	77.7	163096	9	CNS01D01	AL133167 Human chr
26	20.2	77.7	166305	9	AC012447	AC012447 Homo sapi
27	20.2	77.7	167551	2	AC112819	AC112819 Rattus no
28	20.2	77.7	168135	2	AC120654	AC120654 Rattus no
29	20.2	77.7	225443	2	AC137194	AC137194 Rattus no
30	20.2	77.7	246040	2	AC103184	AC103184 Rattus no
31	20.2	77.7	283262	2	AC095135	AC095135 Rattus no
32	19.8	76.2	32587	9	AC096665	AC096665 Homo sapi
33	19.8	76.2	165349	2	AC093665	AC093665 Homo sapi
34	19.8	76.2	170240	9	AL160279	AL160279 Human DNA
35	19.8	76.2	194998	10	AL627075	AL627075 Mouse DNA
36	19.8	76.2	210164	2	AC010732	AC010732 Homo sapi
37	19.8	76.2	241802	2	AC147280	AC147280 Pan trogl
38	19.6	75.4	6159	4	SSC133742	AL133742 Sus scrof
39	19.6	75.4	139958	2	AC141936	AC141936 Rattus no
40	19.6	75.4	174987	2	AC145778	AC145778 Sus scrof
41	19.6	75.4	183097	9	AC087358	AC087358 Homo sapi
42	19.6	75.4	183360	2	AC022525	AC022525 Homo sapi
43	19.6	75.4	184160	2	AC147367	AC147367 Mus muscu
44	19.6	75.4	209380	10	AC133186	AC133186 Mus muscu
45	19.6	75.4	255608	2	AC109405	AC109405 Rattus no

ALIGNMENTS

RESULT 1	AX443200	Sequence 141 from Patent WO0216599.	26 bp	DNA	linear	PAT 02-JUL-2002
LOCUS	AX443200	Sequence 141 from Patent WO0216599.				
DEFINITION	AX443200	Sequence 141 from Patent WO0216599.				
ACCESSION	AX443200	Sequence 141 from Patent WO0216599.				
VERSION	AX443200.1	GI:21690595				
KEYWORDS		synthetic construct				
SOURCE		synthetic construct				
ORGANISM		artificial sequences.				
REFERENCE		1				
AUTHORS		Burgess,C.E., Conley,P.B., Grosse,W.M., Hart,M., Kekuda,R., Shimkets,R.A., Spytek,K.A., Szekeres,E.S., Tomlinson,J.E., Topper,J.N. and Yang,R.B.				
TITLE		Proteins and nucleic acids encoding same				

JOURNAL Patent: WO 0216599-A 141 28-FEB-2002;
 Curagen Corporation (US); COR THERAPEUTICS, INC. (US)
 FEATURES Location/Qualifiers
 source

/organism="synthetic construct"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32630"
 /note="oligonucleotide primer"

ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 0.56; Indels 0; Gaps 0;
 Matches 26; Conservative 0; Mismatches 0

Qy 1 CCTTCTGGAAGTCTGCCAGTGTCTT 26
 |||||
 Db 1 CCTTCTGGAAGTCTGCCAGTGTCTT 26

RESULT 2
 AX443133/c 1183 bp DNA linear PAT 02-JUL-2002
 LOCUS Sequence 74 from Patent WO0216599.
 DEFINITION
 ACCESSION AX443133
 VERSION AX443133.1 GI:21690555
 KEYWORDS
 SOURCE Homo sapiens (human)

ORGANISM
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE
 1 Burgess, C.E., Conley, P.B., Grosse, W.M., Hart, M., Kekuda, R., Shimkets, R.A., Spytek, K.A., Szekeres, E.S., Tomlinson, J.E., Topper, J.N. and Yang, R.B.

TITLE
 Proteins and nucleic acids encoding same
 JOURNAL
 Patent: WO 0216599-A 74 28-FEB-2002;

FEATURES
 source
 Location/Qualifiers
 1..1183
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 0.37; Indels 0; Gaps 0;
 Matches 26; Conservative 0; Mismatches 0

Qy 1 CCTTCTGGAAGTCTGCCAGTGTCTT 26
 |||||
 Db 276 CCTTCTGGAAGTCTGCCAGTGTCTT 251

RESULT 3
 AX443135 1183 bp DNA linear PAT 02-JUL-2002
 LOCUS Sequence 76 from Patent WO0216599.
 DEFINITION
 ACCESSION AX443135
 VERSION AX443135.1 GI:21690556
 KEYWORDS
 SOURCE Homo sapiens (human)

ORGANISM
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
 1 Burgess, C.E., Conley, P.B., Grosse, W.M., Hart, M., Kekuda, R., Shimkets, R.A., Spytek, K.A., Szekeres, E.S., Tomlinson, J.E., Topper, J.N. and Yang, R.B.
 TITLE
 Proteins and nucleic acids encoding same
 JOURNAL
 Patent: WO 0216599-A 76 28-FEB-2002;

FEATURES
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 Location/Qualifiers
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 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 0.37; Indels 0; Gaps 0;
 Matches 26; Conservative 0; Mismatches 0

Qy 1 CCTTCTGGAAGTCTGCCAGTGTCTT 26
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 Db 276 CCTTCTGGAAGTCTGCCAGTGTCTT 251

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ORIGIN

Query Match 100.0%; Score 26; DB 6; Length 1183;
 Best Local Similarity 100.0%; Pred. No. 0.37; Indels 0; Gaps 0;
 Matches 26; Conservative 0; Mismatches 0

Qy 1 CCTTCTGGAAGTCTGCCAGTGTCTT 26
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 Db 908 CCTTCTGGAAGTCTGCCAGTGTCTT 933

RESULT 4

BC042041/c

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

1 (bases 1 to 2538)

Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, P.S., Wagner, L., Shenman, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Haieh, F., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Carninci, P., Prange, C., Raha, S.S., Loggellano, N.A., Peters, G.J., Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahey, J., Helton, E., Kettman, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butlerfield, Y.S., Krzywinski, M.I., Skalska, U., Smaluk, D.E., Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.

Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences

Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

22388257

12477932

2 (bases 1 to 2538)

Strausberg, R.

Direct Submission

Submitted (23-DEC-2002)

National Institutes of Health, Mammalian

Gene Collection (MGC), Cancer Genomics Office, National Cancer

Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,

USA

NIH-MGC Project URL: <http://mgc.nci.nih.gov>

Contact: MGC help desk

Email: cgapbs-remail.nih.gov

Tissue Procurement: DCID/DTP

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Sequencing Group at the Stanford Human Genome

Center, Stanford University School of Medicine, Stanford, CA 94305

Web site: <http://www-shgc.stanford.edu>

Contact: (Dickson, Mark) mdcpaxil.stanford.edu

Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.

Clone distribution: MGC clone distribution information can be found

through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Series: IRAP Plate: 88 Row: a Column: 20

This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 28416422.

```

FEATURES
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        1..2538
            /organism="Homo sapiens"
            /mol_type="mRNA"
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            /clone="MGC:49845 IMAGE:4429896"
            /tissue_type="Prostate, adenocarcinoma."
            /clone_lib="NIH_MGC_91"
            /lab_host="DH10B"
            /note="Vector: pCMV-SPORT6"
    gene
        1..2538
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            /note="synonyms: FLJ21992, SLAP-2, C20orf156, MGC49845, SLAP2"
            /db_xref="LocusID:84174"
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                KAEELLPLGNPGGFLIRSGOTRGYSLSVLSVLSRPSADRIHVRHICLDGNLVI
                SPLTPPSQALVDHVSLEADDCILKSPCVLORAGPLPGKIDPLPTVQTRPLNWK
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                misc_feature
                    469..632
                        /note="SH3; Region: SH3 domain. SH3 (Src homology 3)
                        domains are often indicative of a protein involved in
                        signal transduction related to cytoskeletal organization.
                        First described in the Src cytoplasmic tyrosine kinase.
                        The structure is a partly opened beta barrel"
                        /db_xref="CDD:pfam0018"
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                misc_feature
                    642..890
                        /note="SH2; Region: SH2 domain"
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        Best Local Similarity 100.0%; Pred. No. 0.34;
        Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

        QY 1 CCTCTGGAAGTCTGCCAGTGCCTT 26
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        Db 241 CCTCTGGAAGTCTGCCAGTGCCTT 216

    RESULT 5
    AX452880/c
    LOCUS
    DEFINITION
        Sequence 1 from Patent WO0242457.
    ACCESSION
        AX452880
    VERSION
        AX452880.1 GI:21712520
    KEYWORDS
        Homo sapiens (human)
    ORGANISM
        Homo sapiens
        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
        Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
    REFERENCE
        1
        AUTHORS
            Chang, H., Yang, W.P., Wu, Y., Whitney, G.S., Perez-Villar, J.J. and
            Kanner, S.B.
        TITLE
            Cloning and expression of human slap-2: a novel sh2/sh3
            domain-containing human slap homologue having immune cell-specific
            expression
        JOURNAL
            Patent: WO 0242457-A 1 30-MAY-2002;
            Bristol-Myers Squibb Co. (US)
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/db_xref="taxon:9606"

ORIGIN

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    Best Local Similarity 100.0%; Pred. No. 0.34;
    Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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        |||||
    Db 293 CTTCTGGAAGTCTGCCAGTGCCTT 268

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    LOCUS
    DEFINITION
        Sequence 3014 from Patent WO03039443.
    ACCESSION
        AX780857
    VERSION
        AX780857.1 GI:32697851
    KEYWORDS
        Homo sapiens (human)
    ORGANISM
        Homo sapiens
        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
        Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
    REFERENCE
        1
        AUTHORS
            Haeflrich, T., Schoch, C., Kern, W., Kohlmann, A., Schnittger, S.,
            Dugas, M., Eils, R., Brors, B. and Mergenthaler, S.
        TITLE
            Novel genetic markers for leukemias
        JOURNAL
            Patent: WO 03039443-A 3014 15-MAY-2003;
            Deutsches Krebsforschungszentrum (DE);
            Ludwig-Maximilian-Universitaet Muenchen (DE);
            PD Dr. Dr. (DE); Schoch, Claudia (DE); Kern, Wolfgang (DE)
    FEATURES
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                /db_xref="taxon:9606"
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        Best Local Similarity 100.0%; Pred. No. 0.33;
        Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

        QY 1 CTTCTGGAAGTCTGCCAGTGCCTT 26
            |||||
        Db 265 CTTCTGGAAGTCTGCCAGTGCCTT 240

    RESULT 7
    HS460J8
    LOCUS
    DEFINITION
        Human DNA sequence from clone RP3-460J8 on chromosome
        20q11.21-11.23. Contains the 3' end of the gene for a novel protein
        similar to N-myc downstream regulated (NDRG1) the 5' end of a gene
        encoding a novel protein tyrosine kinase, ESTs, STSs and GSSs,
        complete sequence.
    ACCESSION
        AL031662
    VERSION
        AL031662.26 GI:9716901
    KEYWORDS
        HTG; NDRG1; SH2 domain.
    SOURCE
        Homo sapiens (human)
    ORGANISM
        Homo sapiens
        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
        Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
    REFERENCE
        1 (bases 1 to 66741)
        AUTHORS
            Skuce, C.
        TITLE
            Direct Submission
        JOURNAL
            Submitted (23-JUL-2001) Sanger Centre, Hinxton, Cambridgeshire,
            CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk
            requests: clonerequest@sanger.ac.uk
            On Aug 7, 2000 this sequence version replaced gi:6425549.
            During sequence assembly data is compared from overlapping clones.
            Where differences are found these are annotated as variations
            together with a note of the overlapping clone name. Note that the
            variation annotation may not be found in the sequence submission

```

corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases:

Em, EMBL; Sw, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; information on the WORMPEP database can be found at

http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence

was generated from part of bacterial clone contigs of human

chromosome 20, constructed by the Sanger Centre Chromosome 20

Mapping Group. Further information can be found at

<http://www.sanger.ac.uk/HGP/Chr20>

IMPORTANT: This sequence is not the entire insert of clone

RP3-460J8. It may be shorter because we sequence overlapping

sections only once, except for a 100 base overlap.

The true right end of clone RP3-460J8 is at 66741 in this sequence.

The true left end of clone RP3-469A13 is at 41767 in this sequence.

The true right end of clone RP5-977B1 is at 100 in this sequence.

This sequence was finished as follows unless otherwise noted: all

regions were either double-stranded or sequenced with an alternate

chemistry or covered by high quality data (i.e., phred quality >=

30); an attempt was made to resolve all sequencing problems, such

as compressions and repeats; all regions were covered by at least

one plasmid subclone or more than one M13 subclone; and the

assembly was confirmed by restriction digest. RP3-460J8 is from the

library RP3-3 constructed by the group of Pieter de Jong. For

further details see

<http://www.chori.org/bacpac/home.htm>

VECTOR: pCYPAC2.

Location/Qualifiers

1..66741

/organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

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/map="q11.21-11.23"

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/clone_lib="RP3-3"

/complement(50..544)

/note="match: GSS: Em:B45150"

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/complement(240..7128)

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/complement(dJ977B1.1)

/product="dJ460J8.2 (novel protein tyrosine kinase with

Src homology 2 (SH2) domain)"

/note="match: cDNAs: Em:AK025645

/match: ESTs: Em:BG178487"

/evidence=not experimental

/complement(join(<240..339,6995..7085))

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/note="Continues in Em:AL050318 as dJ977B1.2"

/codon_start=1

/evidence=not experimental

/product="dJ460J8.2 (novel protein tyrosine kinase with

Src homology 2 (SH2) domain)"

/protein_id="CAC44645.1"

/db_xref="GI:15020830"

/db_xref="GOA:Q9H6Q3"

/db_xref="SWISS-PROT:Q9H6Q3"

/translation="MGSLPGRKSLPSPFLSSVQGGPVTMEARSKATAVALGSPF

AGPAELSLRLGELPTIVS"

536..565

/note="15 copies 2 mer ag 93% conserved"

2375..2402

/note="14 copies 2 mer ta 100% conserved"

2783..3155

/note="match: GSS: Em:AQ0807191"

/complement(6983..7482)

/note="match: GSS: Em:AQ556467"

/complement(6995..7492)

/note="match: GSS: Em:AQ556478"

7486..7995

/note="match: STS: Em:HS427J15"

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repeat_region

repeat_region

repeat_region

repeat_region

polyA_site

misc_feature

polyA_site

polyA_site

Gene

mRNA

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22247..22282,26087..26134,30796..30847,30986..31051,

32039..32142,37091..37147,46566..46652,48268..48328,

50163..50225,53242..53362,54429..54553))

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/product="dJ469A13.3"

/note="match: cDNAs: Em:AB033922 Em:U52073 Em:D87953

Em:X92845 Em:AF004162 Em:U60593 Em:AF045564 Em:AB033921

Em:AF159092 Em:AF147402 Em:M59814

/match: ESTs: Em:AA718726 Em:AA039000 Em:AW003952 Em:W99263

Em:AA325826 Em:A1230982 Em:AA162360 Em:AA445016

Em:AV002395 Em:T85147 Em:A1786615 Em:AA113437 Em:A1004026

Em:T88705 Em:A1786673 Em:A1181197 Em:AA764653 Em:AA316771

Em:A0035165 Em:AV002368"

/evidence=not experimental

/complement(17542..17547)

/gene="dJ469A13.3"

17555..17811

/note="match: STS: Em:G19945"

/join(19202..19451,22110..22282,26087..26127,30796..30847)

/note="match: STS: Em:G23762"

complement(join(19270..19451,20551..20589,22110..22161,

22247..22282,26087..26134,30796..30847,30986..31051,

32039..32142,37091..37147,46566..46652,48268..48328,

50163..50225,53242..53362,54429..54553))

/gene="dJ469A13.3"

/note="novel protein (FLJ13556) similar to N-myc

downstream regulated (NDRG1)

/match: proteins: Sw:Q62433 Sw:Q92597 Tr:Q9Z2L9 Sw:P97862"

/codon_start=1

/evidence=not experimental

/product="dJ460J8.1 (continued from dJ469A13.3 in

Em:AL132768)"

/protein_id="CAB65625.1"

/db_xref="GI:6687781"

/db_xref="GOA:Q9UGV2"

/db_xref="SWISS-PROT:Q9UGV2"

/translation="EHDIETHGVVHTIRGLPKGNRPVILTYHDIGLNHKSCNAPF

NFDEQRTQHFVCHVDAPQCGAFSPFGYQIPTMDELAEMLPVLTILSLKSI

GIGVAGAYILSRFALHPELVGLINVDPCAGKMWIDAAKSLGTTNVVDIILA

HFQGEELQANLDIQTRMYIAQDINQNLQLEFLNSNGRDLIEIRPILQDNKLS

KTLKCSLLVVGDSIPAVEAVECNRLNPINTLLKXMDCCGLPQVVPQGLTEAPK

VLOQMGSPVYQLSHLSSTSPSASMTLRLARSRTHTSSSLSGSGEPFSRSVTSNQS

DGTQFCSRPVLDLRHQTMVSC"

complement(24246..24780)

/gene="dJ469A13.3"

/note="match: GSS: Em:AQ592789"

complement(27980..28556)

/gene="dJ469A13.3"

/note="match: GSS: Em:AQ108867"

34313..34420

/note="HY1 repeat: matches 1..109 of consensus"

34505..34560

/note="28 copies 2 mer ta 78% conserved"

34564..34611

repeat_region

repeat_region

repeat_region

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/note="24 copies 2 mer ta 79% conserved"
42553..43658
/note="MER52C repeat: matches 1..1278 of consensus"
47989..48470
/note="match: GSS: Em:AQ672417"
49391..49480
/note="45 copies 2 mer ta 76% conserved"
52922..53120
/note="match: STS: Em:G04621"
/complement(53426..54032)
/genes="dJ469A13.3"
/note="match: GSS: Em:AQ314824"
match: STS: Em:G55853"
54054..54477
/note="match: GSS: Em:AQ310681"
57509..57838
/note="match: STS: Em:G07504"
/complement(57696..58013)
/note="match: STS: Em:G07632 Em:G07634"
58856..59001
/note="73 copies 2 mer at 83% conserved"
/complement(58930..59281)
/note="match: GSS: Em:AQ067563"
59062..59236
/note="TIGER2 repeat: matches 2541..2714 of consensus"
59738..60495
/note="TIGER2 repeat: matches 1780..2541 of consensus"
60719..61831
/note="MER11C repeat: matches 1..1071 of consensus"
62547..63174

Query Match 100.0%; Score 26; DB 9; Length 66741;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTCTGGAGTCTGCAGTGTCTT 26
Db 11665 CCTCTGGAGTCTGCAGTGTCTT 11690

RESULT 8
AC026539/c
LOCUS
DEFINITION
Homo sapiens chromosome 20 clone RP11-712N14 map 20, WORKING DRAFT
SEQUENCE, 37 unordered pieces.
AC026539
AC026539.2 GI:7656813
HTG; HTGS_PHASE1; HTGS_DRAFT.
KEYWORDS
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 145833)
Birren, B., Linton, L., Nusbaum, C. and Lander, E.
Homo sapiens chromosome 20, clone RP11-712N14
Unpublished
REFERENCE
2 (bases 1 to 145833)
Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N.,
Anderson, S., Baldwin, J., Barna, N., Bastien, V., Beda, F.,
Boguski, L., Boukett, B., Brown, A., Burkett, G.,
Campopiano, A., Castelle, A., Choepel, Y., Colangelo, M., Collins, S.,
Collamore, A., Cooke, P., DeArrellano, K., Dewar, K., Diaz, J.S.,
Dodge, S., Domino, M., Doyle, M., Ferreira, P., FitzHugh, W., Gage, D.,
Gallagan, J., Gardyna, S., Ginde, S., Govette, M., Graham, L.,
Grand-Pierre, N., Grant, G., Hagos, B., Hearford, A., Horton, L.,
Howland, J.C., Iliev, I., Johnson, R., Jones, C., Kann, L., Karatas, A.,
Klein, J., Laroque, K., Lamazares, R., Landers, T., Lehotzky, J.,
Levine, R., Liu, C., Liu, G., Locke, K., Macdonald, P., Marquis, N.,
McCarthy, M., McEwan, P., McGurk, A., McKernan, K., McPheeters, R.,
Meldrum, J., Meneses, L., Mihova, T., Miranda, C., Mlenga, V., Morrow, J.,
Murphy, T., Naylor, J., Norman, C.H., O'Connor, T., O'Donnell, P.,
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Pisani, C., Pollara, V., Raymond, C., Riley, R., Rogov, P., Rothman, D.,

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TITLE
JOURNAL

COMMENT

Roy, A., Santos, R., Schauer, S., Severy, P., Spencer, B.,
 Stange-Thomann, N., Stojanovic, N., Subramanian, A., Talamas, J.,
 Tesfaye, S., Theodore, J., Tirrell, A., Travers, M., Trigilio, J.,
 Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W.J.,
 Young, G., Zainoun, J., Zimmer, A. and Zody, M.
 Direct Submission
 Submitted (22-MAR-2000) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 On Apr 27, 2000 this sequence version replaced gi:7283243.
 All repeats were identified using RepeatMasker:
 Smit, A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html

----- Genome Center
 Center: Whitehead Institute/ MIT Center for Genome Research
 Center code: WIBR

Web site: http://www-seq.wi.mit.edu
 Contact: sequence.submissions@genome.wi.mit.edu

----- Project Information
 Center project name: L7115

----- Summary Statistics
 Center Clone name: 712_N14

Sequencing vector: M13; M77815; 100% of reads
 Chemistry: Dye-terminator Big Dye; 100% of reads

Assembly program: Phrap; version 0.960731
 Consensus quality: 125577 bases at least Q40

Consensus quality: 135703 bases at least Q30
 Consensus quality: 135593 bases at least Q20

Insert size: 182000; agarose-fp
 Insert size: 142233; sum-of-contigs

Quality coverage: 2.6 in Q20 bases; agarose-fp
 Quality coverage: 3.3 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently
 * consists of 37 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

1 1214: contig of 1214 bp in length
 * 1215: gap of 100 bp
 * 1315: contig of 1359 bp in length
 * 2674: gap of 100 bp
 * 2774: contig of 1747 bp in length
 * 4520: contig of 1747 bp in length
 * 4620: gap of 100 bp
 * 4621: contig of 1341 bp in length
 * 5961: contig of 1341 bp in length
 * 6061: gap of 100 bp
 * 6082: contig of 1658 bp in length
 * 7719: gap of 100 bp
 * 7720: contig of 1980 bp in length
 * 7820: gap of 100 bp
 * 9800: contig of 1535 bp in length
 * 11434: gap of 100 bp
 * 11535: contig of 2848 bp in length
 * 14382: gap of 100 bp
 * 14383: contig of 2666 bp in length
 * 14483: gap of 100 bp
 * 17149: contig of 1991 bp in length
 * 17249: gap of 100 bp
 * 19239: contig of 1763 bp in length
 * 19339: gap of 100 bp
 * 21102: contig of 1763 bp in length
 * 21202: gap of 100 bp
 * 23371: contig of 2169 bp in length
 * 23471: gap of 100 bp
 * 23782: contig of 2311 bp in length
 * 25882: gap of 100 bp
 * 28824: contig of 2942 bp in length
 * 28924: gap of 100 bp
 * 28925: contig of 2695 bp in length
 * 31619: gap of 100 bp
 * 31719: contig of 2960 bp in length
 * 34679: gap of 100 bp
 * 34779: contig of 2748 bp in length
 * 37527: gap of 100 bp
 * 37527: contig of 2748 bp in length

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* 37528 37627: gap of 100 bp
* 37628 40146: contig of 2519 bp in length
* 40147 40246: gap of 100 bp
* 40247 43743: contig of 3497 bp in length
* 43744 43843: gap of 100 bp
* 43844 47133: contig of 3290 bp in length
* 47134 47233: gap of 100 bp
* 47234 51023: contig of 3790 bp in length
* 51024 51123: gap of 100 bp
* 51124 54935: contig of 3812 bp in length
* 54936 55035: gap of 100 bp
* 55036 59553: contig of 4518 bp in length
* 59554 59654: gap of 100 bp
* 59655 64428: contig of 4775 bp in length
* 64429 64528: gap of 100 bp
* 64529 69211: contig of 4683 bp in length
* 69212 69311: gap of 100 bp
* 69312 72901: contig of 3590 bp in length
* 72902 73001: gap of 100 bp
* 73002 76724: contig of 3723 bp in length
* 76725 76824: gap of 100 bp
* 76825 81179: contig of 4355 bp in length
* 81180 81279: gap of 100 bp
* 81280 87009: contig of 5730 bp in length
* 87010 87109: gap of 100 bp
* 87110 90855: contig of 3746 bp in length
* 90856 90955: gap of 100 bp
* 90956 98520: contig of 5565 bp in length
* 98521 98620: gap of 100 bp
* 98621 10321: contig of 5701 bp in length
* 10322 102421: gap of 100 bp
* 102422 108293: contig of 5872 bp in length
* 108294 108393: gap of 100 bp
* 108394 116689: contig of 8296 bp in length
* 116690 116789: gap of 100 bp
* 116790 128264: contig of 8475 bp in length
* 128265 128364: gap of 100 bp
* 128365 136354: contig of 10990 bp in length
* 136355 136454: gap of 100 bp
* 136455 145833: contig of 9379 bp in length.
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Query Match          100.0%; Score 26; DB 2; Length 145833;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTTCTGGAAGTCTGCCAGTGCCTT 26
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Db 100020 CTTCTGGAAGTCTGCCAGTGCCTT 99995

RESULT 9
AC129114/c
LOCUS          AC129114.2   177004 bp   DNA   linear   HTG 11-OCT-2002
DEFINITION    Rattus norvegicus clone CH230-251P22, WORKING DRAFT SEQUENCE, 4
unordered pieces.
ACCESSION     AC129114.2   GI:23814684
VERSION       AC129114.2   HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
KEYWORDS      Rattus norvegicus (Norway rat)
SOURCE        Rattus norvegicus
ORGANISM      Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
              Rattus.
REFERENCE     1 (bases 1 to 177004)
AUTHORS      Muzny, D., Marie, J., Metzker, M., Lee, S., Abruzzo, S., Adams, C., Alder, J.,
              Allen, C., Allen, H., Altschuld, S., Amin, A., Anguiano, D.,
              Anyalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H.,
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              Biswal, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M.,
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              Chacko, J., Chavez, D., Chen, R., Chen, X., Chen, Y., Chen, Z., Chu, J.,
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              Davila, M., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D.,
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              Karpathy, S., Kelly, S., Khan, Z., King, L., Kovar, C., King, L., Liu, J.,
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Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E.,
 Mawhinney, S., McLeod, M.P., McNeill, T.Z., Meenen, E.,
 Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S.,
 Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L.,
 Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S.,
 Nwackeleneh, O., Okwodu, G., Olarnpunsagoon, A., Pal, S., Parks, K.,
 Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkuch, C.,
 Piopier, F., Poindexter, A., Popovic, D., Primus, E., Pu, L.-L.,
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 Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F.,
 Rives, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S.D.,
 Sanders, M., Savery, G., Scherer, S., Scott, G., Shatsman, S., Shen, H.,
 Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C.D., Smajls, D.,
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 Valas, R., Vera, V., Villaseana, D., Waldron, L., Walker, B., Wang, J.,
 Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F.,
 Williams, G., Willson, R., Wleczyk, R., Wooden, H., Worley, K.,
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 Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von
 Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O.,
 Weinstein, G. and Gibbs, R.A.

TITLE

JOURNAL

REFERENCE

AUTHORS

JOURNAL

TITLE

REFERENCE

AUTHORS

JOURNAL

TITLE

REFERENCE

AUTHORS

JOURNAL

COMMENT

Unpublished
 2 (bases 1 to 177004)

Worley, K.C.

Direct Submission

Submitted (27-JUL-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA

3 (bases 1 to 177004)

Rat Genome Sequencing Consortium.

Direct Submission

Submitted (11-OCT-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA

On Oct 11, 2002 this sequence version replaced gi:21998900.

The sequence in this assembly is a combination of BAC based reads
 and whole genome shotgun sequencing reads assembled using Atlas
 (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
 in the feature table below represents a scaffold in the Atlas
 assembly (a 'contig-scaffold'). Within each contig-scaffold,
 individual sequence contigs are ordered and oriented, and separated
 by sized gaps filled with Ns to the estimated size. The sequence
 may extend beyond the ends of the clone and there may be sequence
 contigs within a contig-scaffold that consist entirely of whole
 genome shotgun sequence reads. Both end sequences and whole genome
 shotgun sequence only contigs will be indicated in the feature
 table.

Center: Genome Center

Center code: BCM

Web site: http://www.hgsc.bcm.tmc.edu/

Contact: hgsc-help@bcm.tmc.edu

Project Information

Center project name: GMI

Center clone name: CH230-251F22

Summary Statistics

Assembly program: Phrap; version 0.990329

Consensus quality: 156282 bases at least Q40

Consensus quality: 158286 bases at least Q30

Consensus quality: 159515 bases at least Q20

Estimated insert size: 156592; sum-of-contigs estimation

Quality coverage: 8x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length

(see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).

* NOTE: This is a 'working draft' sequence. It currently

consists of 4 contigs. The true order of the pieces

is not known and their order in this sequence record is

arbitrary. Gaps between the contigs are represented as

* runs of N, but the exact sizes of the gaps are unknown.

* This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

* 1 173251: contig of 173251 bp in length.
 * 173252 173351: gap of unknown length
 * 173352 174391: contig of 1040 bp in length
 * 174392 174491: gap of unknown length
 * 174492 175689: contig of 1198 bp in length
 * 175690 175789: gap of unknown length
 * 175790 177004: contig of 1215 bp in length.

FEATURES

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/db_xref="taxon:10116"

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ORIGIN

Query Match

81.5%; Score 21.2; DB 2; Length 177004;

Best Local Similarity 88.5%; Pred. No. 35;

Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 CTTTCTGGAAGTCTGCCAGTGTCTTT 26

Db 95163 CTTTCTGGAAGTCTGCCAGTGTCTTT 95138

RESULT 10

AC020636/c

LOCUS

AC020636

DEFINITION

Homo sapiens 3 BAC RP11-251C9 (Roswell Park Cancer Institute Human

BAC library) complete sequence.

AC020636

VERSION

AC020636.14 GI:22003934

KEYWORDS

HTG.

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

REFERENCE

AUTHORS

1 (bases 1 to 179497)

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Muzny, D.M., Adams, C., Adio-Oduola, B., Ali-oshan, F.R., Allen, C.,

Alsbrooks, S.L., Amaral, H.C., Are, J.R., Ayale, M., Banks, T.,

Barbata, J., Benton, J., Binage, K., Blankenburg, K., Bonnin, D.,

Bouck, J., Bowie, S., Brieva, M., Brown, E., Brown, M., Bryant, N.P.,

Buhay, C., Burch, P., Burkett, C., Burrell, K.L., Byrd, N.C.,

Carroll, T.F., Carter, M., Cavazos, S.R., Chacko, J., Chavez, D.,

Chen, G., Chen, R., Chen, Z., Chowdhry, I., Christopoulos, C.,

Cleveland, C.D., Cox, C., Coyle, M.D., Dathorne, S.R., David, R.,

Davila, M.L., Davis, C., Davy-Carroll, L., Dederich, D.A.,

Delaney, K.R., Delgado, O., Denn, A.L., Ding, Y., Dinh, H.H.,

Douthwaite, K.J., Draper, H., Dugan-Rocha, S., Durbin, K.J.,

Earnhart, C., Edgar, D., Edwards, C.C., Elhaj, C., Escotto, M.,

Falls, T., Ferraguto, D., Flagg, N., Ford, J., Foster, P., Frantz, P.,

Gabisi, A., Gao, J., Garcia, A., Garner, T., Garza, N., Gill, R.,

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Overlapping clones are noted at the beginning and end of the Features listing.

ANNOTATION OF FEATURES:

STSS are identified using ePCR (Genome Res. 7:541-550) searches of a local database that includes entries from dbSTS, GDB, and local mapping efforts.

Repeats are identified using RepeatMasker (A. Smit and P. Green, unpublished.) for Human and Mouse sequences.

Genes and Region of sequence similarity are identified by BLAST (Nuc. Acids Res. 25:3389-3402) similarity (expect < 1e-34) to the EST and cDNA sequences. Genes demonstrate at least two exons flanked by consensus splice sites that maintained sequence continuity across the splice junctions. Sequences that are not identical matches are annotated as similar.

SEQUENCING READ COVERAGE: Sequencing is completed to a minimum standard of double strand coverage with a minimum of 2 clones and 2 reads with no ambiguities or 2 chemistries with a minimum of 2 clones and 3 reads with no ambiguities. If the sequence quality for a region does not meet this standard, it will be indicated in the annotation as Low Coverage.

QUALITY OF INDIVIDUAL BASES: This sequence meets stringent quality standards - estimated error rate less than 1 per 10,000 bases. Reports of lowest quality individual bases and measures of base quality are listed below. Description of the metrics can be found at URL: <http://www.hgsc.bcm.tmc.edu:8088/quality.info/genbank.annotation.html>.

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4464..4739
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7371..7400
/rpt_family="AT-rich"
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/rpt_family="MLT1E1"
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13873..13953
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13992..14099
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14156..14355
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14760..15104
/rpt_family="L1MC5"
15370..15397


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/rpt_family="AT-rich"
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16558..16711
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16714..16885
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21947..22063
/rpt_family="(CA)n"
complement(23769..24118)
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complement(27498..27630)
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2771..27798
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27838..27866
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29684..29788
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Query Match      81.5%; Score 21.2; DB 9; Length 179497;
Best Local Similarity 88.5%; Pred. No. 35;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CCTCTGGAAGTCTGCCAGTGCCTT 26
Db 29519 CCATCTGGAAGTCTGCCAGTGCCTT 29494

RESULT 11
AC105625/c
LOCUS
DEFINITION
Rattus norvegicus clone CH230-117017, WORKING DRAFT SEQUENCE, 2
unordered pieces.
AC105625
AC105625.4 GI:25075238
HTG: HTGS PHASE1; HTGS DRAFT; HTGS_FULLTOP.
Rattus norvegicus (Norway rat)
Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
1 (bases 1 to 259967)
Muzny,D,Maxie,, Metzker,M, Lee,, Abramzon,S,, Adams,C,, Alder,J,,
Allen,C,, Allen,H,, Alsbrooks,S,, Amin,A,, Anguiano,D,,
Anyalebechi,V,, Aoyagi,A,, Ayodeji,M,, Baca,E,, Baden,H,,
Baldwin,D,, Bandaranaike,D,, Barber,M,, Barnstead,M,, Benahmed,F,,
Biswal,O,K,, Blair,J,, Blankenburg,K,, Blyth,P,, Brown,M,,
Bryant,N,, Buhay,C,, Burch,P,, Burrell,K,, Calderon,E,,
Cardenas,V,, Carter,K,, Cavazos,I,, Ceasar,H,, Center,A,,
Chacko,J,, Chavez,D,, Chen,G,, Chen,R,, Chen,Y,, Chen,Z,, Chu,J,,
Cleveland,C,, Cockrell,R,, Cox,C,, Coyle,M,, Cree,A,, D'Souza,L,,
Davila,M,L,, Davis,C,, Davy-Carroll,L,, De Anda,C,, Dederich,D,,
Delgado,O,, Denson,S,, Deramo,C,, Ding,Y,, Dinh,H,, Divya,K,,
Draper,H,, Dugan-Rocha,S,, Dunn,A,, Durbin,K,, Duval,B,, Eaves,K,,
Egan,A,, Escoto,M,, Eugene,C,, Evans,C,A,, Falls,T,, Fan,G,,
Fernandez,S,, Finley,M,, Flagg,N,, Forbes,L,, Foster,M,, Foster,P,,
Fraser,C,M,, Gabisi,A,, Ganta,R,, Garcia,A,, Garner,T,, Garza,M,,
Gebregorgis,E,, Geer,K,, Gill,R,, Grady,M,, Guerra,W,, Guevara,W,,
Gunaratne,P,, Haaland,W,, Hamill,C,, Hamilton,C,, Hamilton,K,,
Harvey,Y,, Havlak,P,, Hawes,A,, Henderson,N,, Hernandez,J,,
Hernandez,R,, Hines,S,, Hladun,S,L,, Hodgson,A,, Hogues,M,,
Hollins,B,, Howells,S,, Hulyk,S,, Hume,J,, Idlebird,D,, Jackson,A,,

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TITLE
JOURNAL
REFERENCE
AUTHORS
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AUTHORS
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JOURNAL
COMMENT

Direct Submission
Unpublished
2 (bases 1 to 259967)
Worley,K.C.
Direct Submission
Submitted (09-JAN-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 259967)
Rat Genome Sequencing Consortium.
Direct Submission
Submitted (19-NOV-2002) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Nov 19, 2002 this sequence version replaced gi:23101542.
The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GNJS
Center clone name: CH230-117017
----- Summary Statistics
Assembly program: Phrap; version 0.990329
Consensus quality: 218447 bases at least Q40
Consensus quality: 221126 bases at least Q30
Consensus quality: 229550 bases at least Q20
Estimated insert size: 224159; sum-of-contigs estimation
Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

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* NOTE: Estimated insert size may differ from sequence length

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Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A., Karpthy, S., Kelly, S., Khan, Z., King, L., Kovar, C., Kowis, C., Kraft, C.L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Loresuhewa, L., Loulseghe, H., Lozano, R.J., Lu, X., Ma, J., Maheshwari, M., Mahindartne, M., Mahmoud, M., Malloy, K., Mangum, A., Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E., Mawhney, S., McLeod, M.P., McNeill, T.Z., Meenen, E., Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Muidasa, M., Murphy, M., Naif, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwackeleme, C., Okwunonu, G., Olarnpunsagoon, A., Pal, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkuch, C., Plopper, F., Poindester, A., Popovic, D., Primus, E., Pu, L., Puazo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M.A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rivers, C., Rodkey, T., Rojase, A., Rose, M., Rose, R., Ruiz, S., Sanders, W., Savary, G., Scherer, S., Scott, G., Shatsman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C.D., Smajda, D., Sneed, A., Sodergren, E., Song, X.-Z., Sorelle, R., Sosa, J., Steimle, M., Strong, R., Sutton, A., Svatek, A., Taber, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K., Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, P., Williams, G., Willson, R., Wlezyk, R., Wooden, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, D., Yoon, V., Yu, P., Zhang, J., Zhou, O., Zhou, X., Zhao, S., Dunn, D., von Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O., Weinstock, G. and Gibbs, R.A.

(see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).

- * NOTE: This is a 'working draft' sequence. It currently consists of 2 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown.
- * This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

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1 14629: contig of 14629 bp in length
14630 14729: gap of unknown length
14730 259667: contig of 245238 bp in length.
Location/Qualifiers

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FEATURES

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misc_feature

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Query Match      81.5%; Score 21.2; DB 2; Length 259967;
Best Local Similarity 88.5%; Pred. No. 34;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 1 CTTCTGGAGTCTCCAGTGTCTT 26

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Db 168681 CTTTCAGGAATCTCCAGTGTCTT 168686

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RESULT 12

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AC095338/c

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LOCUS

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Rattus norvegicus clone CH230-114A11, linear HTG 10-MAY-2003
***, unordered pieces.

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ACCESSION

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AC095338.6 GI:30522611

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VERSION

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HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_ENRICHED.

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KEYWORDS

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Rattus norvegicus (Norway rat)

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SOURCE

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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

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REFERENCE

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1 (bases 1 to 261492)
Muzny,D.Marie., Metzker,M.Lee., Abramson,S., Adams,C., Alder,J.,
Allen,C., Allen,H., Alibrooks,S., Anin,A., Aquilano,D.,
Arvallebechi,V., Aovagi,A., Ayodeji,M., Baca,E., Baden,H.,
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Yu,F., Zhang,J., Zhou,J., Zhou,X., Zhao,S., Dunn,D., von
Niederhausern,A., Weiss,R., Smith,D.R., Holt,R.A., Smith,H.O.,
Weinstock,G. and Gibbs,R.A.

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Direct Submission

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Unpublished
2 (bases 1 to 261492)
Worley,K.C.

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REFERENCE

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JOURNAL

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* as soon as it is available and the accession number will
* be preserved.

1 249471: contig of 249471 bp in length
249471: gap of unknown length
249571: contig of 1065 bp in length
250636: gap of unknown length
250736: gap of unknown length
250737: contig of 1138 bp in length
251874: gap of unknown length
251875: contig of 1919 bp in length
253893: gap of unknown length
253894: contig of 1321 bp in length
255315: gap of unknown length
255414: gap of unknown length
256732: contig of 1318 bp in length
256733: gap of unknown length
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FEATURES

Location/Qualifiers
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end_sequence:BH288027"

ORIGIN

Query Match 81.5%; Score 21.2; DB 2; Length 261492;
Best Local Similarity 88.5%; Pred. No. 34;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 CTTCTGGAAGTCCTCCAGTGCCTT 26

Db 52710 CTTTCAGGAATCTCCAGTGCCTT 52685

RESULT 13

AC021312
LOCUS AC021312 76332 bp DNA linear HTG 13-JUL-2000
DEFINITION Homo sapiens chromosome 4 clone RP11-197L13 map 4, LOW-PASS
SEQUENCE SAMPLING.
AC021312
VERSION AC021312.2 GI:9126405
KEYWORDS HTG; HTGS PHASE0.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 76332)
Barren,B., Linton,L., Nusbaum,C. and Lander,E.
Homo sapiens chromosome 4, clone RP11-197L13
Unpublished

REFERENCE

AUTHORS
TITLE
JOURNAL
REFERENCE
AUTHORS
Barren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,
Anderson,S., Baldwin,J., Barna,N., Beckerly,R., Beda,F.,
Boguslavskiy,L., Boukhgalter,B., Brown,A., Burkett,G., Castle,A.,
Choepel,X., Collangelo,M., Collins,S., Collymore,A., Cooke,P.,
DeArellano,K., Dewar,K., Domino,M., Doyle,M., Fenestor,J.,
Ferrelira,P., FitzHugh,W., Forrest,C., Gage,D., Galagan,J.,
Gardyna,S., Grant,C., Hagos,B., Headford,A., Horton,L.,
Howland,J.C., Johnson,R., Jones,C., Kann,L., Karatas,A., Klein,J.,
Landers,T., Lehoczy,J., Levine,R., Lieu,C., Liu,G., Locke,K.,
Maddaloni,P., Marquis,N., McEwan,P., McGurk,A., McKernan,K.,
McPheters,R., Meldrum,J., Meneus,L., Morrow,J., Naylor,J.,
Norman,C.H., O'Connor,T., O'Donnell,P., Oliviar,T.M., Peterson,K.,
Pierre,N., Pisani,C., Pollara,V., Raymond,C., Riley,R., Rothman,D.,
Roy,A., Santos,R., Severy,P., Spencer,B., Stange-Thomann,N.,
Stojanovic,N., Subramanian,A., Talamas,J., Testaye,S., Theodore,J.,
Tirrell,A., Vassiliev,H., Viel,R., Vo,A., Wu,X., Wyman,D., Ye,W.J.,
Zimmer,A. and Zody,M.

Direct Submission

Submitted (16-JAN-2000) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Jul 13, 2000 this sequence version replaced gi:6705794.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html

----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research

Center code: WIBR
Web site: http://www-seq.wi.mit.edu

Contact: sequence.submissions@genome.wi.mit.edu
----- Project Information

Center project name: L4256
Center clone name: 197_L13

NOTE: This record contains 84 individual
* sequencing reads that have not been assembled into
* contigs. Runs of N are used to separate the reads
* and the order in which they appear is completely
* arbitrary. Low-pass sequence sampling is useful for
* identifying clones that may be gene-rich and allows
* overlap relationships among clones to be deduced.
* However, it should not be assumed that this clone
* will be sequenced to completion. In the event that
* the record is updated, the accession number will
* be preserved.

1 809: contig of 809 bp in length
810 909: gap of 100 bp
910 1713: contig of 804 bp in length
1714 1813: gap of 100 bp
1814 2627: contig of 814 bp in length
2628 2727: gap of 100 bp
2728 3523: contig of 796 bp in length
3524 3623: gap of 100 bp
3624 4432: contig of 809 bp in length
4433 4532: gap of 100 bp
4534 5324: contig of 792 bp in length
5325 5424: gap of 100 bp
5425 6207: contig of 783 bp in length
6208 6307: gap of 100 bp
6309 7094: contig of 787 bp in length
7095 7194: gap of 100 bp
7195 8019: contig of 825 bp in length
8020 8119: gap of 100 bp
8120 8909: contig of 790 bp in length
8910 9009: gap of 100 bp
9010 9839: contig of 830 bp in length
9840 9919: gap of 100 bp
9940 10753: contig of 814 bp in length
10754 10853: gap of 100 bp
10854 11665: contig of 812 bp in length
11666 11765: gap of 100 bp
11766 12577: contig of 812 bp in length
12578 12677: gap of 100 bp
12679 13494: contig of 817 bp in length
13495 13594: gap of 100 bp
13595 14384: contig of 790 bp in length
14385 14484: gap of 100 bp
14485 15300: contig of 816 bp in length
15301 15400: gap of 100 bp
15401 16201: contig of 801 bp in length
16202 16301: gap of 100 bp
16302 17092: contig of 791 bp in length
17093 17192: gap of 100 bp
17193 17983: contig of 791 bp in length
17984 18083: gap of 100 bp
18084 18890: contig of 807 bp in length
18891 18990: gap of 100 bp
18991 19817: contig of 827 bp in length
19818 19917: gap of 100 bp
19918 20737: contig of 820 bp in length
20738 20837: gap of 100 bp

FEATURES

source
Location/Qualifiers
1. .184541
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/chromosome="5"
/clone="CIB-46B19"

ORIGIN

Query Match 80.0%; Score 20.8; DB 9; Length 184541;
Best Local Similarity 91.7%; Pred. No. 54;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CTCTGGAAGTCTGCCAGTGTCT 25

Db 108454 CTCTGGAAGTCTGCCAGTGTCT 108431

RESULT 15

AL355474/c

LOCUS

DEFINITION Human DNA sequence from clone Rp11-55C5 on chromosome 10, complete sequence.

ACCESSION AL355474

VERSION AL355474.15 GI:18121463

KEYWORDS HTG.

SOURCE

ORGANISM Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1. (bases 1 to 120194)

Almeida, J.

Direct Submission

Submitted (09-JAN-2002) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquerry@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk

On Jan 10, 2002 this sequence version replaced gi:18072474. During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e. phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em, EMBL; Sw, SWISSPROT; Tr, TrEMBL; Wp, WORMPEP; Information on the WORMPEP database can be found at

http://www.sanger.ac.uk/Projects/C_elegans/wormpep This sequence was generated from part of bacterial clone contigs of human chromosome 10, constructed by the Sanger Centre Chromosome 10 Mapping Group. Further information can be found at

<http://www.sanger.ac.uk/HGP/Chr10>
Rp11-55C5 is from the library RPC1-11.1 constructed by the group of Pieter de Jong. For further details see

<http://www.chori.org/bacpac/home.htm>

VECTOR: pBAC3.6

IMPORTANT: This sequence is not the entire insert of clone Rp11-55C5 it may be shorter because we sequence overlapping sections only once, except for a short overlap.

The true left end of clone Rp11-55C5 is at 1 in this sequence. The true left end of clone Rp11-357A18 is at 118195 in this sequence.

FEATURES

source

Location/Qualifiers
1. .120194
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

/chromosome="10"
/clone="RP11-55C5"
/clone_lib="RPC1-11.1"
39283..39323
/note="Sequence from AC025038 sequenced by GTC."

misc_feature

ORIGIN

Query Match 78.5%; Score 20.4; DB 9; Length 120194;
Best Local Similarity 95.5%; Pred. No. 87;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CTCTGGAAGTCTGCCAGTGTCT 23

Db 71803 CTCTGGAAGTCTGCCAGTGTCT 71782

Search completed: February 19, 2004, 23:23:23
Job time : 119.831 secs

Result No.	Score	Query			DB	ID	Description
		Match	Length	No.			
1	26	100.0	26	6	ABK61506	Abk61506 Human NOV	
2	26	100.0	444	6	ABQ98569	Abq98569 Human ORF	
3	26	100.0	445	5	AAS74747	Aas74747 DNA encod	
4	26	100.0	763	6	ABQ98670	Abq98670 Human ORF	
5	26	100.0	1183	6	ABK61465	Abk61465 Human CDN	
6	26	100.0	2567	6	ABQ43980	Abq43980 Human Src	
7	18.8	72.3	258	8	ACC58334	Acs58334 Human abr	
8	18.8	72.3	258	8	ACC58337	Acs58337 Mouse abr	
9	18.8	72.3	258	8	ACC58336	Acs58336 Human abr	
10	18.8	72.3	264	6	APD27075	Adp27075 Human uro	
11	18.8	72.3	288	6	AAD27083	Adad27083 Human uPA	
12	18.8	72.3	300	1	AAN81299	Aan81299 Human pro	
13	18.8	72.3	405	6	AAD27078	Adad27078 Human uro	
14	18.8	72.3	429	6	AAD27082	Adad27082 Human uPA	
15	18.8	72.3	465	7	AAL55230	Aal55230 Tumour an	
16	18.8	72.3	465	7	AAL55236	Aal55236 Tumour an	
17	18.8	72.3	482	6	ABX62674	Abx62674 Rat sequ	
18	18.8	72.3	482	9	ADB56463	Adb56463 Toxicity	
19	18.8	72.3	482	9	ADB50966	Adb50966 Primary r	
20	18.8	72.3	618	9	ADD35169	Add35169 Mouse mit	
21	18.8	72.3	624	2	AAT75153	Aat75153 Metastasi	
22	18.8	72.3	645	2	AAT75154	Aat75154 Metastasi	

CC encoding NOVX (or its complement, fragment or variant). NOVX is NOV1-14,
CC 15a, 15b, 16a, and 16b. The NOVX polypeptide, nucleic acid encoding it
CC and antibody against it, are useful for treating or preventing (e.g. by
CC gene therapy) a NOVX-associated disorder in humans, e.g. cardiomyopathy,
CC atherosclerosis, a disorder related to cell signal processing and
CC metabolic pathway modulation, diabetes or cancers. The NOVX polypeptide
CC and nucleic acids are also useful for determining the presence of
CC predisposition to the diseases. The NOVX nucleic acid and polypeptide are
CC especially useful in therapeutic or prophylactic applications for
CC disorders associated with aberrant NOVX expression or activity, e.g.
CC cancers (e.g. adenocarcinoma, lymphoma, prostate cancer or uterus
CC cancer), immune response, graft-versus-host disease, acquired
CC immunodeficiency syndrome (AIDS), asthma, Crohn's disease, hypertension,
CC congenital heart defects, multiple sclerosis, inflammation or Albright
CC hereditary osteodystrophy and many other diseases listed in the
CC specification. The DNA encoding the protein is useful in gene therapy for
CC treating the conditions. This is also useful in detection assays,
CC chromosome mapping, tissue typing, diagnostic or prognostic assays, or
CC for developing a powerful assay system for functional analysis of various
CC human disorders, as well as in diagnostic applications. The present
CC sequence is a reverse transcriptase (RT)-PCR probe used to measure tissue
CC specific expression of mRNA encoding a NOVX protein
XX
XX
SQ Sequence 26 BP; 3 A; 8 C; 6 G; 9 T; 0 U; 0 Other;

Query Match 100.0%; Score 26; DB 6; Length 26;
Best Local Similarity 100.0%; Pred. No. 0.064;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTTCTGGAAGTCTGCCAGTGTCTT 26
DB 1 CCTTCTGGAAGTCTGCCAGTGTCTT 26

RESULT 2

ABQ98669/c
ID ABQ98669 standard; DNA; 444 BP.

AC ABQ98669;

DT 04-NOV-2002 (first entry)

DE Human ORF476 coding sequence.

XX Cytostatic; Cardiant; Anti-allergic; Immunosuppressive; Vulnary;
XX Antiinflammatory; gene therapy; human; ORFX; atherogenic; platelet;
XX human umbilical vein endothelial cell; HUVEC; atherosclerotic plaque;
XX cancer; cardiovascular disease; allergy; autoimmune disease;
XX wound healing; blood coagulation disorder; inflammatory disorder; ds.

OS Homo sapiens.

XX US2002082206-A1.

XX 27-JUN-2002.

XX 30-MAY-2001; 2001US-00867550.

XX 30-MAY-2000; 2000US-0208427P.

XX (LEAC/) LEACH M D.

XX (MEHR/) MEHRABAN F.

XX (CONL/) CONLEY P B.

XX (TOPP/) TOPPER J N.

XX (LAWD/) LAW D.

PI Leach MD, Mehraban F, Conley PB, Topper JN, Law D;

XX WPI; 2002-626554/67.

DR P-PSDB; ABP64106.

XX New polypeptide designated ORFX are present in human atherogenic cells
PT and are useful to prevent and treat ORFX-associated disorders including

PT cancer, allergy, wound healing or autoimmune, cardiovascular or
PT inflammatory disease.

XX Claim 2; SEQ ID NO 951; 78pp; English.

XX The present invention relates to novel human ORFX polypeptides and their
CC coding sequences (ABP63631-ABP64681 and ABQ98194-ABQ99267). The sequences
CC were discovered in human atherogenic cells, in particular in platelets
CC and human umbilical vein endothelial cells (HUVEC) and are expressed in
CC many other tissues as well. Atherogenic cells are cells which have the
CC potential to develop atherosclerotic plaques. The ORFX polypeptides and
CC nucleic acids are useful for treating or preventing a pathological
CC condition associated with an ORFX-associated disorder, e.g. cancer,
CC cardiovascular disease, allergy, autoimmune disease, wound healing, blood
CC coagulation disorders or inflammatory disorders. Note: The sequence data
CC for this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from the USPTO web site at
CC seqdata.uspto.gov/sequence.html?docID=2002082206

XX SQ Sequence 444 BP; 103 A; 128 C; 132 G; 81 T; 0 U; 0 Other;

Query Match 100.0%; Score 26; DB 6; Length 444;
Best Local Similarity 100.0%; Pred. No. 0.09;

Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTTCTGGAAGTCTGCCAGTGTCTT 26

DB 35 CCTTCTGGAAGTCTGCCAGTGTCTT 10

RESULT 3

AAS74747

ID AAS74747 standard; cDNA; 445 BP.

AC AAS74747;

DT 13-FEB-2002 (first entry)

XX DNA encoding novel human diagnostic protein #10551.

XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.

XX Homo sapiens.

XX WO200175067-A2.

XX 11-OCT-2001.

XX 30-MAR-2001; 2001WO-US008631.

XX 31-MAR-2000; 2000US-00540217.

XX 23-AUG-2000; 2000US-00649167.

XX (HYSE-) HYSEQ INC.

XX Drmanac RT, Liu C, Tang YT;

XX WPI; 2001-639362/73.

XX P-PSDB; ABG10560.

XX New isolated polynucleotide and encoded polypeptides, useful in
XX diagnostics, forensics, gene mapping, identification of mutations
XX responsible for genetic disorders or other traits and to assess
XX biodiversity.

XX Claim 1; SEQ ID NO 10551; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and polypeptide (II)
CC sequences. (I) is useful as hybridisation probes, polymerase chain
CC reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
CC and in recombinant production of (II). The polynucleotides are also used
CC in diagnostics as expressed sequence tags for identifying expressed

CC genes. (I) is useful in gene therapy techniques to restore normal
 CC activity of (II) or to treat disease states involving (II). (II) is
 CC useful for generating antibodies against it, detecting or quantitating a
 CC polypeptide in tissue, as molecular weight markers and as a food
 CC supplement. (II) and its binding partners are useful in medical imaging
 CC of sites expressing (II). (I) and (II) are useful for treating disorders
 CC involving aberrant protein expression or biological activity. The
 CC polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic
 CC coding sequences of the invention. Note: The sequence data for this
 CC patent did not appear in the printed specification, but was obtained in
 CC electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pat_sequences

XX SQ Sequence 445 BP; 89 A; 112 C; 143 G; 101 T; 0 U; 0 Other;
 Query Match 100.0%; Score 26; DB 5; Length 445;
 Best Local Similarity 100.0%; Pred. No. 0.09;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTTCTGGAAGTCTGCCAGTGTCTT 26
 Db 193 CCTTCTGGAAGTCTGCCAGTGTCTT 218

RESULT 4
 ABQ98670/c
 ID ABQ98670 standard; DNA; 763 BP.
 XX AC ABQ98670;
 XX DT 04-NOV-2002 (first entry)
 XX DE Human ORF477 coding sequence.
 XX KW Cytostatic; Cardiant; Anti-allergic; Immunosuppressive; Vulnervary;
 KW Antinflammatory; gene therapy; human; ORFX; atherogenic; platelet;
 KW human umbilical vein endothelial cell; HUVEC; atherosclerotic plaque;
 KW cancer; cardiovascular disease; allergy; autoimmune disease;
 KW wound healing; blood coagulation disorder; inflammatory disorder; ds.
 XX OS Homo sapiens.
 XX PN US2002082206-A1.
 XX PD 27-JUN-2002.
 XX PF 30-MAY-2001; 2001US-00867550.
 XX PR 30-MAY-2000; 2000US-0208427P.
 XX PA (LEAC/) LEACH M D.
 PA (MEHR/) MEHRABAN F.
 PA (CONL/) CONLEY P B.
 PA (TOPP/) TOPPER J N.
 PA (LAWD/) LAW D.
 XX PI Leach MD, Mehraban F, Conley PB, Topper JN, Law D;
 XX WPI; 2002-626554/67.
 DR P-PSDB; ABP64107.
 XX PT New polypeptide designated ORFX are present in human atherogenic cells
 PT and are useful to prevent and treat ORFX-associated disorders including
 PT cancer, allergy, wound healing or autoimmune, cardiovascular or
 PT inflammatory disease.
 XX PS Claim 2; SEQ ID NO 953; 78bp; English.
 XX CC The present invention relates to novel human ORFX polypeptides and their

CC coding sequences (ABP63631-ABP64681 and ABQ98194-ABQ99267). The sequences
 CC were discovered in human atherogenic cells, in particular in platelets
 CC and human umbilical vein endothelial cells (HUVEC) and are expressed in
 CC many other tissues as well. Atherogenic cells are cells which have the
 CC potential to develop atherosclerotic plaques. The ORFX polypeptides and
 CC nucleic acids are useful for treating or preventing a pathological
 CC condition associated with an ORFX-associated disorder, e.g. cancer,
 CC cardiovascular disease, allergy, autoimmune disease, wound healing, blood
 CC coagulation disorders or inflammatory disorders. Note: The sequence data
 CC for this patent did not form part of the printed specification, but was
 CC obtained in electronic format directly from the USPTO web site at
 CC seqdata.uspto.gov/sequence.html?docID=20020082206

XX SQ Sequence 763 BP; 176 A; 222 C; 218 G; 147 T; 0 U; 0 Other;
 Query Match 100.0%; Score 26; DB 6; Length 763;
 Best Local Similarity 100.0%; Pred. No. 0.096;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTTTCTGGAAGTCTGCCAGTGTCTT 26
 Db 164 CTTTCTGGAAGTCTGCCAGTGTCTT 139

RESULT 5
 ABK61465/c
 ID ABK61465 standard; cDNA; 1183 BP.
 XX AC ABK61465;
 XX DT 18-JUN-2002 (first entry)
 XX DE Human cDNA encoding protein NOV13.
 XX KW Human; Gene; ss; NOVX; gene therapy; cardiomyopathy; atherosclerosis;
 KW cell signal processing disorder; metabolic pathway modulation disorder;
 KW diabetes; cancer; adenocarcinoma; lymphoma; prostate cancer;
 KW uterus cancer; immune response; graft-versus-host disease;
 KW acquired immunodeficiency syndrome; AIDS; asthma; Crohn's disease;
 KW hypertension; congenital heart defects; multiple sclerosis; inflammation;
 KW Albright hereditary osteodystrophy.
 XX OS Homo sapiens.
 XX PN WO200216599-A2.
 XX PD 28-FEB-2002.
 XX PF 27-AUG-2001; 2001WO-US026510.
 XX PR 25-AUG-2000; 2000US-0228191P.
 PR 08-FEB-2001; 2001US-0267300P.
 PR 20-FEB-2001; 2001US-0269961P.
 PR 20-MAR-2001; 2001US-0277337P.
 XX PA (CURA-) CURAGEN CORP.
 PA (CORT-) COR THERAPEUTICS INC.
 XX PI Burgess CE, Conley PB, Grosse WM, Hart M, Kekuda R, Shinkets RA,
 PI Spytek KA, Szekeres ES, Tomlinson JE, Topper JN, Yang R;
 DR WPI; 2002-280937/32.
 DR P-PSDB; AAU91308.
 XX PT New polypeptides for treating or preventing a disorder associated with
 PT them, in humans, e.g. cardiomyopathy, atherosclerosis or cancers.
 XX PS Claim 1; Page 98; 263pp; English.
 CC The invention relates to an isolated polypeptide (NOVX) a mature form of
 CC NOVX, a NOVX variant (differing by no more than 15%), the nucleotide
 CC encoding NOVX (or its complement, fragment or variant). NOVX is NOV1-14,
 CC 15a, 15b, 16a, and 16b. The NOVX polypeptide, nucleic acid encoding it

CC and antibody against it, are useful for treating or preventing (e.g. by
 CC gene therapy) a NOVX-associated disorder in humans, e.g. cardiomyopathy,
 CC atherosclerosis, a disorder related to cell signal processing and
 CC metabolic pathway modulation, diabetes or cancers. The NOVX polypeptide
 CC and nucleic acids are also useful for determining the presence of
 CC predisposition to the diseases. The NOVX nucleic acid and polypeptide are
 CC especially useful in therapeutic or prophylactic applications for
 CC disorders associated with aberrant NOVX expression or activity, e.g.
 CC cancers (e.g. adenocarcinoma, lymphoma, prostate cancer or uterus
 CC cancer), immune response, graft-versus-host disease, acquired
 CC immunodeficiency syndrome (AIDS), asthma, Crohn's disease, hypertension,
 CC congenital heart defects, multiple sclerosis, inflammation or Albrit
 CC hereditary osteodysplasia and many other diseases listed in the
 CC specification. The DNA encoding the protein is useful in gene therapy for
 CC treating the conditions. This is also useful in detection assays,
 CC chromosome mapping, tissue typing, diagnostic or prognostic assays, or
 CC for developing a powerful assay system for functional analysis of various
 CC human disorders, as well as in diagnostic applications. The present
 CC sequence encodes a NOVX protein

SQ Sequence 1183 BP; 251 A; 359 C; 333 G; 240 T; 0 U; 0 Other;

Query Match 100.0%; Score 26; DB 6; Length 1183;
 Best Local Similarity 100.0%; Pred. No. 0.1;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTCTGGAAGTCGCCAGTGTCCTT 26

Db 276 CCTCTGGAAGTCGCCAGTGTCCTT 251

RESULT 6

AA043980/C

ID AAD43980 standard; cDNA; 2567 BP.

XX AC AAD43980;

DT 13-DEC-2002 (first entry)

DE Human Src-Like Adapter Protein-2 (hSLAP-2) cDNA.

XX Human; SH2/SH3-domain-containing adapter; Src-Like Adapter Protein-2;
 KW SLAP-2; immune disorder; signal transduction; autoimmune disease; cancer;
 KW neoplasm; inflammation disorder; rheumatoid arthritis; osteoarthritis;
 KW psoriasis; rhinitis; allergy; inflammatory bowel disease; gene therapy;
 KW Crohn's disease; systemic lupus erythematosus; tissue/organ rejection;
 KW multiple sclerosis; asthma; acute respiratory distress syndrome;
 KW pulmonary disorder; dermatological; neuroprotective; gene; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

FT CDS 415..1200

FT /*tag= a

FT /product= "Human SLAP-2"

XX W0200242457-A1.

XX 30-MAY-2002.

XX 20-NOV-2001; 2001WO-US043367.

XX 22-NOV-2000; 2000US-0252545P.

XX (BRIM) BRISTOL-MYERS SQUIBB CO.

XX Chang H, Yang W, Wu Y, Whitney GS, Perez-Villar JJ, Kanmer SB;

XX WPI; 2002-463632/49.

XX P-PSDB; AAE26357.

XX Novel substantially purified human SH2/SH3-domain-containing adapter
 PT polypeptide, termed Src-Like Adapter Protein-2, useful for therapeutic

PT intervention in immunological and inflammatory disorders and cancer.

XX Claim 2; Fig 1; 85pp; English.

XX The invention relates to a substantially purified human SH2/SH3-domain-
 CC containing adapter polypeptide, termed Src-Like Adapter Protein-2 (SLAP-
 CC 2). The invention is useful for treating an immune disorder involving
 CC hyperactivity of B- or T- lymphocytes in a mammal. The invention is
 CC useful for screening for antagonists or inhibitors of the interaction of
 CC hSLAP-2 with cellular signalling compounds, for diagnosing, treating or
 CC preventing diseases or disorders associated with aberrant or uncontrolled
 CC cellular signal transduction, for determining those cellular signalling
 CC molecules which associate with hSLAP-2 and which provide critical signals
 CC for cell activation, and as effectors in methods to affect T-cell
 CC activation. The invention is useful in screening assays to identify and
 CC detect candidate bioactive agents that modulate hSLAP-2 bioactivity, for
 CC potential use to treat autoimmune diseases which may be caused by
 CC hyperactivated B cells, as well as to treat diseases which may be caused
 CC by hyperactivated T cells, in addition to other immune system related
 CC conditions, diseases, or disorders, T-cell and B-cell neoplasms,
 CC inflammation disorders, diseases and conditions, rheumatoid arthritis,
 CC osteoarthritis, psoriasis, rhinitis, inflammatory bowel disease (Crohn's
 CC and ulcerative colitis), allergies, particularly those involving
 CC hyperactivity of B-cells and T-cells, or other immune cells, such as
 CC mast cells or eosinophils, autoimmune diseases such as systemic lupus
 CC erythematosus and multiple sclerosis, pulmonary diseases including
 CC asthma, acute respiratory distress syndrome, and chronic obstructive
 CC pulmonary disorder, tissue/ organ rejection and cancer. The invention is
 CC useful in gene therapy. The present sequence is human SLAP-2 cDNA

SQ Sequence 2567 BP; 611 A; 741 C; 566 G; 549 T; 0 U; 0 Other;

Query Match 100.0%; Score 26; DB 6; Length 2567;

Best Local Similarity 100.0%; Pred. No. 0.11;

Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTCTGGAAGTCGCCAGTGTCCTT 26

Db 293 CCTCTGGAAGTCGCCAGTGTCCTT 268

RESULT 7

ACC58334

ID ACC58334 standard; cDNA; 258 BP.

AC ACC58334;

DT 26-AUG-2003 (first entry)

DE Human abrogen (hATF-kringle) coding sequence.

XX Human; abrogen; kringle; hATF-kringle; angiogenesis; inhibitor;
 KW urokinase plasminogen activator; tumour; metastasis; cytostatic;
 KW gene therapy; gene; ss.

XX Homo sapiens.

XX Key Location/Qualifiers

FT CDS 1..258

FT /*tag= a

FT /partial

FT /product= "Human abrogen"

FT /note= "no start or stop codon"

XX W02003042354-A2.

XX 22-MAY-2003.

XX 04-SEP-2002; 2002WO-US027885.

XX 04-SEP-2001; 2001US-0316300P.

XX (AVET) AVENTIS PHARM INC.

XX PI Nesbit M, Fong TC, Brockstedt D;
 XX DR WPI; 2003-449566/42.
 XX DR P-PSDB; ABR42599.
 XX PT New abrogen polypeptide, useful for treating an angiogenesis related
 XX PT diseases e.g. tumor metastasis.
 XX PS Claim 32; Page 24-25; 95pp; English.
 XX CC The present sequence is a coding sequence for a novel human abrogen,
 CC designated hATF-kringle, comprising the human urokinase plasminogen
 CC activator kringle domain. Abrogens such as hATF-kringle are potent
 CC inhibitors of endothelial proliferation and angiogenesis. Abrogen
 CC polypeptides are capable of inhibiting or reducing cell proliferation
 CC induced by both basic fibroblast growth factor (bFGF) and vascular
 CC endothelial growth factor in a specific endothelial cell proliferation
 CC assay; angiostatin only inhibits bFGF induced proliferation in this
 CC assay. Vectors that expressed abrogen polypeptides in vivo were shown to
 CC reduce tumour metastasis in 2 lung cancer models. The invention provides
 CC abrogen polypeptides and polynucleotides, and methods of using these to
 CC treat an angiogenesis-related disease or disorder, e.g. tumour metastasis
 CC (claimed)
 XX SQ Sequence 258 BP; 63 A; 74 C; 71 G; 50 T; 0 U; 0 Other;
 Query Match 72.3%; Score 18.8; DB 8; Length 258;
 Best Local Similarity 90.9%; Pred. No. 1.3e+02;
 Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 5 CTGGAAGTCTGCCAGTGTCTT 26
 Db 78 CTGGAAGTCTGCCAGTGTCTT 99
 RESULT 8
 ACC58338
 ID ACC58338 standard; cDNA; 258 BP.
 AC ACC58338;
 XX 26-AUG-2003 (first entry)
 DT Human abrogen (hATF-kringle) coding sequence.
 DE Human; abrogen; kringle; hATF-kringle; angiogenesis; inhibitor;
 KW urokinase plasminogen activator; tumour; metastasis; cytostatic;
 KW gene therapy; gene; ss.
 XX Homo sapiens.
 XX Key Location/Qualifiers
 XX CDS 1..258
 XX FT /*tag= a
 XX FT /partial
 XX FT /product= "Human abrogen"
 XX FT /note= "no start or stop codon"
 XX WO2003042354-A2.
 XX PD 22-MAY-2003.
 XX 04-SEP-2002; 2002WO-US027885.
 XX 04-SEP-2001; 2001US-0316300P.
 XX (AVET) AVENTIS PHARM INC.
 XX Nesbit M, Fong TC, Brockstedt D;
 XX WPI; 2003-449566/42.
 XX DR P-PSDB; ABR42617.

XX PT New abrogen polypeptide, useful for treating an angiogenesis related
 XX PT diseases e.g. tumor metastasis.
 XX PS Disclosure; Page 95; 95pp; English.
 XX CC The present sequence is a coding sequence for a novel human abrogen,
 CC designated hATF-kringle, comprising the human urokinase plasminogen
 CC activator kringle domain. Abrogens such as hATF-kringle are potent
 CC inhibitors of endothelial proliferation and angiogenesis. Abrogen
 CC polypeptides are capable of inhibiting or reducing cell proliferation
 CC induced by both basic fibroblast growth factor (bFGF) and vascular
 CC endothelial growth factor in a specific endothelial cell proliferation
 CC assay; angiostatin only inhibits bFGF induced proliferation in this
 CC assay. Vectors that expressed abrogen polypeptides in vivo were shown to
 CC reduce tumour metastasis in 2 lung cancer models. The invention provides
 CC abrogen polypeptides and polynucleotides, and methods of using these to
 CC treat an angiogenesis-related disease or disorder, e.g. tumour metastasis
 CC (claimed)
 XX SQ Sequence 258 BP; 61 A; 73 C; 72 G; 50 T; 0 U; 2 Other;
 Query Match 72.3%; Score 18.8; DB 8; Length 258;
 Best Local Similarity 90.9%; Pred. No. 1.3e+02;
 Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 5 CTGGAAGTCTGCCAGTGTCTT 26
 Db 78 CTGGAAGTCTGCCAGTGTCTT 99
 RESULT 9
 ACC58337
 ID ACC58337 standard; cDNA; 258 BP.
 XX ACC58337;
 XX 26-AUG-2003 (first entry)
 DT Mouse abrogen (MATF-kringle) coding sequence.
 DE Mouse; abrogen; kringle; MATF-kringle; angiogenesis; inhibitor;
 KW urokinase plasminogen activator; tumour; metastasis; cytostatic;
 KW gene therapy; gene; ss.
 XX Mus sp.
 XX Key Location/Qualifiers
 XX CDS 1..258
 XX FT /*tag= a
 XX FT /partial
 XX FT /product= "Mouse abrogen"
 XX FT /note= "no start or stop codon"
 XX WO2003042354-A2.
 XX PD 22-MAY-2003.
 XX 04-SEP-2002; 2002WO-US027885.
 XX 04-SEP-2001; 2001US-0316300P.
 XX (AVET) AVENTIS PHARM INC.
 XX Nesbit M, Fong TC, Brockstedt D;
 XX WPI; 2003-449566/42.
 XX DR P-PSDB; ABR42602.
 XX New abrogen polypeptide, useful for treating an angiogenesis related
 XX PT diseases e.g. tumor metastasis.
 XX PS Claim 32; Page 25-26; 95pp; English.

XX The present sequence is a coding sequence for a novel murine abrogen,
 CC designated hATF-kringle, comprising the mouse urokinase plasminogen,
 CC activator kringle domain. Abrogens such as hATF-kringle are potent
 CC inhibitors of endothelial proliferation and angiogenesis. Abrogen
 CC polypeptides are capable of inhibiting or reducing cell proliferation
 CC induced by both basic fibroblast growth factor (bFGF) and vascular
 CC endothelial growth factor in a specific endothelial cell proliferation
 CC assay; angiotensin only inhibits bFGF induced proliferation in this
 CC assay. Vectors that expressed abrogen polypeptides in vivo were shown to
 CC reduce tumour metastasis in 2 lung cancer models. The invention provides
 CC abrogen polypeptides and polynucleotides, and methods of using these to
 CC treat an angiogenesis-related disease or disorder, e.g. tumour metastasis
 CC (claimed)

XX SQ Sequence 258 BP; 62 A; 73 C; 72 G; 51 T; 0 U; 0 Other;

Query Match 72.3%; Score 18.8; DB 8; Length 258;
 Best Local Similarity 90.9%; Pred. No. 1.3e+02;
 Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
 |||||
 Db 78 CTGGAAGTCTGCCAGTGTCTT 99

RESULT 10
 ACC58336
 ID ACC58336 standard; cDNA; 258 BP.
 XX
 AC ACC58336;
 XX
 DT 26-AUG-2003 (first entry)
 XX
 DE Human abrogen (hATF-kringle) coding sequence.
 XX
 KW Human; abrogen; kringle; hATF-kringle; angiogenesis; inhibitor;
 KW urokinase plasminogen activator; tumour; metastasis; cytostatic;
 KW Gene therapy; gene; ss.
 XX
 OS Homo sapiens.

Key Location/Qualifiers
 FH 1..258
 CDS /tag= a
 FT /partial
 FT /product= "Human abrogen"
 FT /note= "no start or stop codon"

XX WO2003042354-A2.
 XX
 XX
 XX 22-MAY-2003.
 XX
 XX 04-SEP-2002; 2002WO-US027885.
 XX
 XX 04-SEP-2001; 2001US-0316300P.
 XX
 XX (AVET) AVENTIS PHARM INC.
 XX
 XX Nesbit M, Fong TC, Brockstedt D;
 XX
 XX WPI; 2003-449566/42.
 XX P-PSDB; ABR42601.
 XX
 XX New abrogen polypeptide, useful for treating an angiogenesis related
 XX diseases e.g. tumor metastasis.
 XX
 XX Claim 32; Page 25; 95pp; English.

XX The present sequence is a coding sequence for a novel human abrogen,
 CC designated hATF-kringle, comprising the human urokinase plasminogen
 CC activator kringle domain. Abrogens such as hATF-kringle are potent
 CC inhibitors of endothelial proliferation and angiogenesis. Abrogen

CC polypeptides are capable of inhibiting or reducing cell proliferation
 CC induced by both basic fibroblast growth factor (bFGF) and vascular
 CC endothelial growth factor in a specific endothelial cell proliferation
 CC assay; angiotensin only inhibits bFGF induced proliferation in this
 CC assay. Vectors that expressed abrogen polypeptides in vivo were shown to
 CC reduce tumour metastasis in 2 lung cancer models. The invention provides
 CC abrogen polypeptides and polynucleotides, and methods of using these to
 CC treat an angiogenesis-related disease or disorder, e.g. tumour metastasis
 CC (claimed)

XX SQ Sequence 258 BP; 62 A; 74 C; 72 G; 50 T; 0 U; 0 Other;
 Query Match 72.3%; Score 18.8; DB 8; Length 258;
 Best Local Similarity 90.9%; Pred. No. 1.3e+02;
 Matches 20; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
 |||||
 Db 78 CTGGAAGTCTGCCAGTGTCTT 99

RESULT 11
 AAD27075
 ID AAD27075 standard; DNA; 264 BP.
 XX
 AC AAD27075;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Human urokinase-type plasminogen activator (uPA) kringle DNA.
 XX
 KW Human; urokinase-type plasminogen activator; uPA; therapy; hypertension;
 KW stroke; hypotension; atherosclerosis; heart attack; thrombotic disorder;
 KW microvascular occlusion; angiogenic disorder; pulmonary fibrosis; asthma;
 KW tumour cell metastasis; glaucoma; diabetic retinopathy; wound healing;
 KW clotting disorder; uterine contraction disorder; respiratory disease;
 KW male impotence; adult respiratory distress syndrome; ds.

XX OS Homo sapiens.
 XX
 XX Key Location/Qualifiers
 FH 1..264
 CDS /tag= a
 FT /product= "Human uPA kringle"
 FT /partial
 FT /note= "CDS does not include start and stop codon"

XX WO200197752-A2.
 XX
 XX 27-DEC-2001.
 XX
 XX 13-JUN-2001; 2001WO-US018976.
 XX
 XX 20-JUN-2000; 2000US-0212874P.
 XX
 XX (UYPE-) UNIV PENNSYLVANIA.
 XX
 XX Cines DB, Higazi AA;
 XX
 XX WPI; 2002-122240/16.
 XX P-PSDB; AAE16542.
 XX
 XX Composition for modulating muscle cell and tissue contractility for
 XX treating atherosclerosis, asthma, hypertension, glaucoma, impotence,
 XX comprising domains from urokinase-type plasminogen activator.
 XX
 XX Claim 29; Fig 1J; 117pp; English.

XX The invention relates to a composition comprising one or more domains of
 CC urokinase-type plasminogen activator (uPA). The composition is used to
 CC modulate the contractility and angiogenic activity of a mammalian muscle,
 CC endothelial cell or tissue. The composition is used for treating stroke,
 CC hypotension, hypertension, atherosclerosis, heart attack, microvascular

occlusions, thrombotic microangiopathies, surgically induced thrombotic disorders, angiogenic disorders, pulmonary fibrosis, asthma, tumour cell invasion, tumour cell angiogenesis, tumour cell metastasis, glaucoma, diabetic retinopathy, wound healing, clotting disorder, uterine contraction disorder, male impotence, respiratory disease or condition such as asthma, adult respiratory distress syndrome, primary pulmonary hypertension, microvascular thrombotic occlusion, and a disorder associated with chronic intrapulmonary fibrin formation. The present sequence is human urokinase-type plasminogen activator (uPA) kringle DNA

XX Sequence 264 BP; 66 A; 74 C; 74 G; 50 T; 0 U; 0 Other;

Query Match 72.3%; Score 18.8; DB 6; Length 264;

Best Local Similarity 90.9%; Pred. No. 1.3e-02; Indels 0; Gaps 0; Matches 20; Conservative 0; Mismatches 2;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
|||||
Db 78 CTGGAAGTCTGCCAGTGTCTT 99

RESULT 12

AAD27083
ID AAD27083 standard; DNA; 288 BP.

AC AAD27083;

DT 09-APR-2002 (first entry)

DE Human uPA kringle and connecting peptide DNA.

XX Human; urokinase-type plasminogen activator; uPA; therapy; hypertension; stroke; hypotension; atherosclerosis; heart attack; thrombotic disorder; microvascular occlusion; angiogenic disorder; pulmonary fibrosis; asthma; tumour cell metastasis; glaucoma; diabetic retinopathy; wound healing; clotting disorder; uterine contraction disorder; respiratory disease; adult respiratory distress syndrome; male impotence; ds.

XX Homo sapiens.

XX Key Location/Qualifiers

FT CDS 1..288

FT /tag= a

FT /product= "Human uPA kringle and connecting peptide"

FT /note= "CDS does not include start and stop codon"

FT /partial

XX WO200197752-A2.

XX PD 27-DEC-2001.

XX PF 13-JUN-2001; 2001WO-US018976.

XX PR 20-JUN-2000; 2000US-0212874P.

XX (UTYPE-) UNIV PENNSYLVANIA.

XX PI Cines DB, Higazi AA;

XX DR WPI; 2002-122240/16.

XX DR P-PSDB; AAB15550.

XX Composition for modulating muscle cell and tissue contractility for treating atherosclerosis, asthma, hypertension, glaucoma, impotence, comprising domains from urokinase-type plasminogen activator.

XX Claim 29; Fig 1R; 117pp; English.

XX The invention relates to a composition comprising one or more domains of urokinase-type plasminogen activator (uPA). The composition is used to modulate the contractility and angiogenic activity of a mammalian muscle, endothelial cell or tissue. The composition is used for treating stroke, hypotension, hypertension, atherosclerosis, heart attack, microvascular

CC occlusions, thrombotic microangiopathies, surgically induced thrombotic disorders, angiogenic disorders, pulmonary fibrosis, asthma, tumour cell invasion, tumour cell angiogenesis, tumour cell metastasis, glaucoma, diabetic retinopathy, wound healing, clotting disorder, uterine contraction disorder, male impotence, respiratory disease or condition such as asthma, adult respiratory distress syndrome, primary pulmonary hypertension, microvascular thrombotic occlusion, and a disorder associated with chronic intrapulmonary fibrin formation. The present sequence is a DNA encoding human urokinase-type plasminogen activator (uPA) kringle and connecting peptide

XX Sequence 288 BP; 73 A; 84 C; 77 G; 54 T; 0 U; 0 Other;

Query Match 72.3%; Score 18.8; DB 6; Length 288;

Best Local Similarity 90.9%; Pred. No. 1.4e+02; Indels 0; Gaps 0; Matches 20; Conservative 0; Mismatches 2;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
|||||
Db 78 CTGGAAGTCTGCCAGTGTCTT 99

RESULT 13

AAN81299
ID AAN81299 standard; cDNA; 300 BP.

XX AAN81299;

AC 25-MAR-2003 (revised)

DT 08-OCT-1990 (first entry)

XX Human prourokinase mutant designed to acquire unique restriction sites.

XX human pro-urokinase mutant; fibrinolysis; epidermal growth factor domain; ss.

XX Synthetic.

XX Key Location/Qualifiers

FT misc_difference 69

FT /tag= a

FT /label= point mutation

FT /note= "Wild-type= A; Mutant= G"

FT misc_difference 72

FT /tag= b

FT /label= point mutation

FT /note= "Wild-type= T; Mutant= C"

FT misc_difference 209..210

FT /tag= c

FT /label= two point mutations

FT /note= "Wild-type= GC; Mutant= CA"

XX EP253241-A.

XX PD 20-JAN-1988.

XX PF 03-JUL-1987; 87EP-00109628.

XX PR 03-JUL-1986; 86JP-00156936.

XX PR 18-FEB-1987; 87JP-00036495.

XX (GRC) GREEN CROSS CORP.

XX Kasai S, Hiramatsu R, Uno S, Nagai M, Arimura H;

XX WPI; 1988-015623/03.

XX DR P-PSDB; AAP80996.

XX New human pro-urokinase mutants with fibrinolytic activity - have longer half-lives in blood and are obtained by recombinant DNA procedures.

XX Disclosure; Page ?; 40pp; English.

CC Site-directed mutagenesis creates two unique restriction sites; the first
 CC is recognised by SacI and the second by NdeI. The mutant sequence is
 CC inserted into an expression vector system for expression in eg E.coli.
 CC (Updated on 25-MAR-2003 to correct PR field.) (Updated on 25-MAR-2003 to
 CC correct PI field.)

XX SQ Sequence 300 BP; 77 A; 82 C; 75 G; 66 T; 0 U; 0 Other;
 Query Match 72.3%; Score 18.8; DB 1; Length 300;
 Best Local Similarity 90.9%; Pred. No. 1.4e+02;
 Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGCTCTGCCAGTGTCTT 26
 ||||| ||||| ||||| |||||
 Db 279 CTGGAAGCTCTGCCAGTGTCTT 300

RESULT 14
 AAD27078
 ID AAD27078 standard; DNA; 405 BP.

XX AC AAD27078;

XX DT 09-APR-2002 (first entry)

XX DE Human urokinase-type plasminogen activator amino terminal fragment DNA.

XX KW Human; urokinase-type plasminogen activator; uPA; therapy; hypertension;
 KW stroke; hypotension; atherosclerosis; heart attack; thrombotic disorder;
 KW microvascular occlusion; angiogenic disorder; pulmonary fibrosis; asthma;
 KW tumour cell metastasis; glaucoma; diabetic retinopathy; wound healing;
 KW clotting disorder; uterine contraction disorder; respiratory disease;
 KW adult respiratory distress syndrome; amino terminal fragment; ATF;
 KW male impotence; ds.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers
 XX CDS 1..405

XX FT /*tag= a
 XX FT /product= "Human uPA ATF"
 XX FT /note= "CDS does not include start and stop codon"
 XX FT /partial

XX FN WO200197752-A2.

XX PD 27-DEC-2001.

XX PF 13-JUN-2001; 2001WO-US018976.

XX PR 20-JUN-2000; 2000US-0212874P.

XX XX (UYPE-) UNIV PENNSYLVANIA.

XX XX Cines DB, Higazi AA;

XX XX WPI; 2002-122240/16.

XX DR P-PSDB; AAE16545.

XX XX Composition for modulating muscle cell and tissue contractility for
 PT treating atherosclerosis, asthma, hypertension, glaucoma, impotence,
 PT comprising domains from urokinase-type plasminogen activator.

XX PS Claim 29; Fig 1M; 117pp; English.

XX XX The invention relates to a composition comprising one or more domains of
 CC urokinase-type plasminogen activator (uPA). The composition is used to
 CC modulate the contractility and angiogenic activity of a mammalian muscle,
 CC endothelial cell or tissue. The composition is used for treating stroke,
 CC hypotension, hypertension, atherosclerosis, heart attack, microvascular
 CC occlusions, thrombotic microangiopathies, surgically induced thrombotic
 CC disorders, angiogenic disorders, pulmonary fibrosis, asthma, tumour cell
 CC invasion, tumour cell angiogenesis, tumour cell metastasis, glaucoma,

CC diabetic retinopathy, wound healing, clotting disorder, uterine
 CC contraction disorder, male impotence, respiratory disease or condition
 CC such as asthma, adult respiratory distress syndrome, primary pulmonary
 CC hypertension, microvascular thrombotic occlusion, and a disorder
 CC associated with chronic intrapulmonary fibrin formation. The present
 CC sequence is human urokinase-type plasminogen activator (uPA) amino
 CC terminal fragment (ATF) DNA

SQ Sequence 405 BP; 113 A; 105 C; 104 G; 83 T; 0 U; 0 Other;
 Query Match 72.3%; Score 18.8; DB 6; Length 405;
 Best Local Similarity 90.9%; Pred. No. 1.4e+02;
 Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGCTCTGCCAGTGTCTT 26
 ||||| ||||| ||||| |||||
 Db 219 CTGGAAGCTCTGCCAGTGTCTT 240

RESULT 15
 AAD27082

XX ID AAD27082 standard; DNA; 429 BP.

XX AC AAD27082;

XX DT 09-APR-2002 (first entry)

XX DE Human uPA amino terminal fragment (ATF) and connecting peptide DNA.

XX KW Human; urokinase-type plasminogen activator; uPA; therapy; hypertension;
 KW stroke; hypotension; atherosclerosis; heart attack; thrombotic disorder;
 KW microvascular occlusion; angiogenic disorder; pulmonary fibrosis; asthma;
 KW tumour cell metastasis; glaucoma; diabetic retinopathy; wound healing;
 KW clotting disorder; uterine contraction disorder; respiratory disease;
 KW adult respiratory distress syndrome; amino terminal fragment; ATF;
 KW male impotence; ds.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers
 XX CDS 1..429

XX FT /*tag= a
 XX FT /product= "Human uPA ATF and connecting peptide"
 XX FT /note= "CDS does not include start and stop codon"
 XX FT /partial

XX FN WO200197752-A2.

XX PD 27-DEC-2001.

XX PF 13-JUN-2001; 2001WO-US018976.

XX PR 20-JUN-2000; 2000US-0212874P.

XX XX (UYPE-) UNIV PENNSYLVANIA.

XX XX Cines DB, Higazi AA;

XX XX WPI; 2002-122240/16.

XX DR P-PSDB; AAE16549.

XX XX Composition for modulating muscle cell and tissue contractility for
 PT treating atherosclerosis, asthma, hypertension, glaucoma, impotence,
 PT comprising domains from urokinase-type plasminogen activator.

XX PS Claim 29; Fig 1Q; 117pp; English.

XX XX The invention relates to a composition comprising one or more domains of
 CC urokinase-type plasminogen activator (uPA). The composition is used to
 CC modulate the contractility and angiogenic activity of a mammalian muscle,
 CC endothelial cell or tissue. The composition is used for treating stroke,
 CC hypotension, hypertension, atherosclerosis, heart attack, microvascular
 CC occlusions, thrombotic microangiopathies, surgically induced thrombotic

CC disorders, angiogenic disorders, pulmonary fibrosis, asthma, tumour cell
 CC invasion, tumour cell angiogenesis, tumour cell metastasis, glaucoma,
 CC diabetic retinopathy, wound healing, clotting disorder, uterine
 CC contraction disorder, male impotence, respiratory disease or condition
 CC such as asthma, adult respiratory distress syndrome, primary pulmonary
 CC hypertension, microvascular thrombotic occlusion, and a disorder
 CC associated with chronic intrapulmonary fibrin formation. The present
 CC sequence is a DNA encoding human urokinase-type plasminogen activator
 CC (uPA) amino terminal fragment (ATF) and connecting peptide
 XX
 SQ Sequence 429 BP; 120 A; 115 C; 107 G; 87 T; 0 U; 0 Other;

Query Match 72.3%; Score 18.8; DB 6; Length 429;
 Best Local Similarity 90.9%; Pred. No. 1.4e-02;
 Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
 |||||
 Db 219 CTGGAAGTCTGCCAGTGTCTT 240

Search completed: February 19, 2004, 21:51:43
 Job time : 25.0879 secs

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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 21:21:54 ; Search time 172.149 Seconds
(without alignments)
4510.152 Million cell updates/sec

Title: US-09-939-853a-141

Perfect score: 26

Sequence: 1 cctcttgaagctgcaggtgcctt 26

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Lasting first 45 summaries

Database :

EST:*
1: em_estba:*
2: em_esthum:*
3: em_estin:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
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8: em_hic:*
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11: gb_hic:*
12: gb_est3:*
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16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vrt:*
21: em_gss_fun:*
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23: em_gss_nus:*
24: em_gss_pro:*
25: em_gss_rod:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
C 1	26	100.0	616	13	BX383606
C 2	26	100.0	778	12	BG178487
C 3	26	100.0	878	12	BQ053486
C 4	26	100.0	986	12	BQ054265

C	5	26	100.0	1020	12	BQ054281
C 6	26	100.0	1201	9	AL541041	AGENCOURT
C 7	21.8	83.8	354	12	BM483329	AL541041
C 8	21.8	83.8	389	28	AZ620995	536609 MA
C 9	21.8	83.8	541	12	BI898999	1M0453M21
C 10	20.2	77.7	442	12	BG228158	480839 MA
C 11	20.2	77.7	689	10	BB468570	mac35e07.
C 12	20.2	77.7	693	10	BB195256	BB468570
C 13	20.2	77.7	1226	11	AK011064	BB195256
C 14	20.2	77.7	3016	11	AK039889	AK011064 Mus muscu
C 15	19.8	76.2	276	29	CG508158	AK039889 Mus muscu
C 16	19.8	76.2	518	9	AA747812	CG508158 OST58614
C 17	19.6	75.4	302	29	CG635108	AA747812 nx86c07.s
C 18	19.6	75.4	389	10	BE015329	CG635108 OST356941
C 19	19.6	75.4	439	10	BE015326	BE015329 127457 MA
C 20	19.6	75.4	439	10	BE015326	BE015326 127451 MA
C 21	19.6	75.4	533	9	AI551288	BE015326 127451 MA
C 22	19.6	75.4	578	14	CA894739	CA893892 B0182A06
C 23	19.6	75.4	967	12	BI192570	AI551288 vo72d04.x
C 24	19.6	75.4	1114	28	CC250655	CA894739 B0182E08
C 25	19.6	75.4	1132	28	CC286280	BI192570 602945473
C 26	19.6	75.4	1281	28	CC283325	CC250655 CH261-75M
C 27	19.4	74.6	546	13	C78860	CC286280 CH261-100
C 28	19.2	73.8	129	29	CG521339	CC283325 CH261-26L
C 29	19.2	73.8	206	29	CG558956	C78860 C78860 Mous
C 30	19.2	73.8	208	29	CG555648	CG521339 OST90738
C 31	19.2	73.8	213	29	CG576620	CG558956 OST177066
C 32	19.2	73.8	249	29	CG639953	CG576620 OST170490
C 33	19.2	73.8	284	29	CG648011	CG639953 OST372089
C 34	19.2	73.8	287	29	CG618235	CG648011 OST399304
C 35	19.2	73.8	287	29	CG630122	CG618235 OST312776
C 36	19.2	73.8	289	29	CG578637	CG630122 OST345077
C 37	19.2	73.8	291	29	CG645423	CG578637 OST216073
C 38	19.2	73.8	348	9	AI163788	CG645423 OST389989
C 39	19.2	73.8	403	14	T74108	AI163788 A048p58u
C 40	19.2	73.8	438	14	T61390	T74108 YC55f12.s1
C 41	19.2	73.8	521	29	CE370901	T61390 YB90d07.s1
C 42	19.2	73.8	553	9	AA931151	CE370901 tigr-gss-
C 43	19.2	73.8	606	28	BH310531	AA931151 os40a08.s
C 44	19.2	73.8	661	29	AG043855	BH310531 CH230-101
C 45	19.2	73.8	749	28	BZ204700	AG043855 Pan trogl
						BZ204700 CH230-487

ALIGNMENTS

RESULT 1
BX383606/c
LOCUS
DEFINITION BX383606 Homo sapiens T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED
Homo sapiens cDNA clone CS0DJ013YK10 5-PRIME, mRNA sequence.
ACCESSION BX383606
VERSION BX383606.1 GI:30457152
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo..
REFERENCE
1 (bases 1 to 616);
Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
Full-length cDNA libraries and normalization
Unpublished (2001)
JOURNAL Contact: Genoscope
COMMENT Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 9825.r. For
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CS0DJ013BP05QP1&cluster=9825.r. Contact :
Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ Invitrogen Corporation 1600

Faraday Avenue Genoscope sequence ID : CS0DJ013BF05QPI.

FEATURES

source
1. .616
/organization="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DJ013YK10"
/cell_type="T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED"
/cell_line="JURKAT"
/clone_lib="Homo sapiens T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN

Query Match 100.0%; Score 26; DB 13; Length 616;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCTCTGGAAGTCTGCCAGTGTCTT 26

Db 325 CCTCTGGAAGTCTGCCAGTGTCTT 300

RESULT 2

LOCUS BGI78487/c
DEFINITION 60228305F1 NIH_MGC_91 Homo sapiens cDNA clone IMAGE:4429896 5',
mRNA sequence.
VERSION BGI78487
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM

REFERENCE
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov
Tissue Procurement: DCTD/DTF

cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov

Plate: L1AM10182 row: i column: 01
High quality sequence stop: 657.

Location/Qualifiers

1. .778

/organization="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:4429896"

/tissue_type="adenocarcinoma, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH MGC 91"

/note="Organ: prostate; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally; oligo-dT primed.
Average insert size 1.4 kb. Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NIH_MGC Library."

Query Match 100.0%; Score 26; DB 12; Length 778;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Location/Qualifiers

1. .778

/organization="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:4429896"

/tissue_type="adenocarcinoma, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH MGC 91"

/note="Organ: prostate; Vector: pCMV-SPORT6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally; oligo-dT primed.
Average insert size 1.4 kb. Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NIH_MGC Library."

Query Match 100.0%; Score 26; DB 12; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Location/Qualifiers

1. .878

/organization="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5935253"

/tissue_type="natural killer cells, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH MGC 106"

/note="Organ: blood; Vector: pOT87; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

Query Match 100.0%; Score 26; DB 12; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Location/Qualifiers

1. .878

/organization="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5935253"

/tissue_type="natural killer cells, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH MGC 106"

/note="Organ: blood; Vector: pOT87; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

Qy 1 CCTCTGGAAGTCTGCCAGTGTCTT 26

Db 240 CCTCTGGAAGTCTGCCAGTGTCTT 215

RESULT 3

LOCUS BQ053486/c
DEFINITION BQ053486 878 bp mRNA linear EST 29-MAR-2002
AGENCOURT_6822017 NIH_MGC_106 Homo sapiens cDNA clone IMAGE:5935253
5', mRNA sequence.
VERSION BQ053486
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM

REFERENCE BQ053486.1 GI:19812826

AUTHORS NIH-MGC http://mgc.nci.nih.gov/.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs@mail.nih.gov
Tissue Procurement: Dr. Daniel McVicar, DBS/NCI

cDNA Library Preparation: Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov

Plate: L1CM2122 row: 1 column: 06
High quality sequence stop: 394.

Location/Qualifiers

1. .878

/organization="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5935253"

/tissue_type="natural killer cells, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH MGC 106"

/note="Organ: blood; Vector: pOT87; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

Query Match 100.0%; Score 26; DB 12; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Location/Qualifiers

1. .878

/organization="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5935253"

/tissue_type="natural killer cells, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH MGC 106"

/note="Organ: blood; Vector: pOT87; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

Query Match 100.0%; Score 26; DB 12; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Location/Qualifiers

1. .878

/organization="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5935253"

/tissue_type="natural killer cells, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH MGC 106"

/note="Organ: blood; Vector: pOT87; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

Query Match 100.0%; Score 26; DB 12; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Location/Qualifiers

1. .878

/organization="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5935253"

/tissue_type="natural killer cells, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH MGC 106"

/note="Organ: blood; Vector: pOT87; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

Query Match 100.0%; Score 26; DB 12; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Location/Qualifiers

1. .878

/organization="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5935253"

/tissue_type="natural killer cells, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH MGC 106"

/note="Organ: blood; Vector: pOT87; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

Query Match 100.0%; Score 26; DB 12; Length 878;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Location/Qualifiers

1. .878

/organization="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:5935253"

/tissue_type="natural killer cells, cell line"

/lab_host="DH10B (phage-resistant)"

/clone_lib="NIH MGC 106"

/note="Organ: blood; Vector: pOT87; Site 1: XhoI; Site 2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
Laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH_MGC Library."

AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Dr. Daniel McVicar, DBS/NCI
 cDNA Library Preparation: Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: LLCM2125 row: i column: 12
 High quality sequence stop: 515.
 Location/Qualifiers
 1..986
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5936339"
 /tissue_type="natural killer cells, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_106"
 /note="Organ: blood; Vector: pOTB7; Site: 1: XhoI; Site 2:
 EcoRI; cDNA made by oligo-dT priming. Directionally cloned
 into EcoRI/XhoI sites using the following 5' adaptor:
 GGCACGAG(G). Library constructed by Ling Hong in the
 laboratory of Gerald M. Rubin (University of California,
 Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
 Superscript II RT (Life Technologies). Note: this is a
 NIH_MGC Library."

ORIGIN

Query Match 100.0%; Score 26; DB 12; Length 986;
 Best Local Similarity 100.0%; Pred. No. 1.6;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCTCTGGAAGTCTGCCAGTGTCTT 26
 |||||
 Db 157 CCTCTGGAAGTCTGCCAGTGTCTT 132

RESULT 5
 BQ054281/c
 LOCUS BQ054281 1020 bp mRNA linear EST 29-MAR-2002
 DEFINITION AGENCOURT_6830234 NIH_MGC_106 Homo sapiens cDNA clone IMAGE:5936362
 5', mRNA sequence.
 ACCESSION BQ054281
 VERSION BQ054281.1 GI:19813621
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1020)
 AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Dr. Daniel McVicar, DBS/NCI
 cDNA Library Preparation: Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: LLCM2125 row: j column: 11
 High quality sequence stop: 556.
 Location/Qualifiers
 1..1020
 /organism="Homo sapiens"
 /mol_type="mRNA"

FEATURES

Source
 1..1020
 /organism="Homo sapiens"
 /mol_type="mRNA"

/db_xref="taxon:9606"
 /clone="IMAGE:5936362"
 /tissue_type="natural killer cells, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_106"
 /note="Organ: blood; Vector: pOTB7; Site: 1: XhoI; Site 2:
 EcoRI; cDNA made by oligo-dT priming. Directionally cloned
 into EcoRI/XhoI sites using the following 5' adaptor:
 GGCACGAG(G). Library constructed by Ling Hong in the
 laboratory of Gerald M. Rubin (University of California,
 Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
 Superscript II RT (Life Technologies). Note: this is a
 NIH_MGC Library."

ORIGIN

Query Match 100.0%; Score 26; DB 12; Length 1020;
 Best Local Similarity 100.0%; Pred. No. 1.6;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCTCTGGAAGTCTGCCAGTGTCTT 26
 |||||
 Db 90 CCTCTGGAAGTCTGCCAGTGTCTT 65

RESULT 6
 AL541041/c
 LOCUS AL541041 1201 bp mRNA linear EST 12-MAY-2003
 DEFINITION AL541041 Homo sapiens PLACENTA Homo sapiens cDNA clone CS0DE005YK23
 5-PRIME mRNA sequence.
 ACCESSION AL541041
 VERSION AL541041.2 GI:30544829
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1201)
 AUTHORS Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
 TITLE Full-length cDNA libraries and normalization
 JOURNAL Unpublished (2001)
 COMMENT On Feb 15, 2001 this sequence version replaced gi:12871733.
 Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 131 91006 EVRY cedex - France
 Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
 Library was constructed by Life Technologies, a division of
 Invitrogen. This sequence belongs to sequence cluster 9825.r For
 more information about this cluster, see
<http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CS0DE005AF12QPL&cluster=9825.r>. Contact :
 Feng Liang Email : fliang@lifetech.com URL :
<http://fulllength.invitrogen.com/Invitrogen/Corporation/1600>
 Faraday Avenue Genoscope sequence ID : CS0DE005AF12QPL.
 Location/Qualifiers
 1..1201
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="CS0DE005YK23"
 /tissue_type="PLACENTA"
 /note="Vector: pCMVSPORT 6; 1st strand cDNA was primed
 with a NotI-oligo(dT) primer. Five prime end enriched,
 double-strand cDNA was digested with Not I and cloned into
 the Not I and EcoRV sites of the pCMVSPORT 6 vector.
 Library was not normalized."

ORGANISM
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1201)
 AUTHORS Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
 TITLE Full-length cDNA libraries and normalization
 JOURNAL Unpublished (2001)
 COMMENT On Feb 15, 2001 this sequence version replaced gi:12871733.
 Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 131 91006 EVRY cedex - France
 Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
 Library was constructed by Life Technologies, a division of
 Invitrogen. This sequence belongs to sequence cluster 9825.r For
 more information about this cluster, see
<http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CS0DE005AF12QPL&cluster=9825.r>. Contact :
 Feng Liang Email : fliang@lifetech.com URL :
<http://fulllength.invitrogen.com/Invitrogen/Corporation/1600>
 Faraday Avenue Genoscope sequence ID : CS0DE005AF12QPL.
 Location/Qualifiers
 1..1201
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="CS0DE005YK23"
 /tissue_type="PLACENTA"
 /note="Vector: pCMVSPORT 6; 1st strand cDNA was primed
 with a NotI-oligo(dT) primer. Five prime end enriched,
 double-strand cDNA was digested with Not I and cloned into
 the Not I and EcoRV sites of the pCMVSPORT 6 vector.
 Library was not normalized."

FEATURES

Source
 1..1201
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="CS0DE005YK23"
 /tissue_type="PLACENTA"
 /note="Vector: pCMVSPORT 6; 1st strand cDNA was primed
 with a NotI-oligo(dT) primer. Five prime end enriched,
 double-strand cDNA was digested with Not I and cloned into
 the Not I and EcoRV sites of the pCMVSPORT 6 vector.
 Library was not normalized."

ORIGIN

Query Match 100.0%; Score 26; DB 9; Length 1201;
 Best Local Similarity 100.0%; Pred. No. 1.7;
 Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCTCTGGAAGTCTGCCAGTGTCTT 26

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovidae; Bos.

REFERENCE

1 (bases 1 to 541)
 Smith, T.P.L., Grosse, W.M., Preking, B.A., Roberts, A.J., Stone, R.T., Casas, E., Wray, J.E., White, J., Cho, J.J., Fahrenkrug, S.C., Bennett, G.L., Heaton, M.P., Laegreid, W.W., Rohrer, G.A., Chitko-McKown, C.G., Perte, G., Holt, I., Karanymcheva, S., Liang, F., Quackenbush, J. and Keele, J.W.

Sequence evaluation of four pooled-tissue normalized bovine cDNA libraries and construction of a gene index for cattle

JOURNAL

Genome Res. 11 (4), 626-630 (2001)

PUBMED

11180013

COMMENT

Contact: Smith TPL

USDA, ARS, US Meat Animal Research Center

PO Box 166, Clat Center, NE 68933-0166, USA

Tel: 402 762 4366

Fax: 402 762 4390

Email: smith@email.marc.usda.gov

Single pass sequencing. Bases called and alt trimmed with phred

v0.980904.e. Vector identified by cross_match with the -minscore 18

and -mismatch 12 options.

PCR Primers

FORWARD: AGGAACAGCTATGACCAT

BACKWARD: GTTTTCCAGTCACGACG

Plate: 105 row: P column: 20

Seq primer: ATTAGTGACACTATAG.

FEATURES

source

Location/Qualifiers

1..541

/organism="Bos taurus"

/mol_type="mRNA"

/db_xref="taxon:9913"

/tissue_type="pooled"

/lab_host="DH108"

/clone_lib="MARC 280V"

/notes="Vector: pCMV SPORT6; Site 1: NotI; Site 2: SalI;

Library made from pooled tissue from testis, thymus,

semintendons muscle, longissimus muscle, pancreas,

adrenal, and endometrium."

ORIGIN

Query Match 83.8%; Score 21.8; DB 12; Length 541;

Best Local Similarity 92.0%; Pred. No. 83;

Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 CTCTGGAAGTCTGCCAGTGTCTT 26

|||||

Db 198 CTCTAGAGTCTGCCAATGTCTT 174

|||||

RESULT 10

BG228158/c

LOCUS

DEFINITION

mac35e07.x1 Soares mouse 3NBMS Mus musculus cDNA clone

IMAGE:4001772 3', mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Contact: Robert Strausberg, Ph.D.

Email: cgapsb@mail.nih.gov

This clone is available royalty-free through LNL; contact the

IMAGE Consortium (info@image.llnl.gov) for further information.

MGI:1499500

High quality sequence stop: 402.

Location/Qualifiers

1..442

/organism="Mus musculus"

/mol_type="mRNA"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="IMAGE:4001772"

/sex="male"

/tissue_type="Spleen"

/dev_stage="4 weeks"

/lab_host="DH108"

/clone_lib="Soares mouse 3NBMS"

/notes="Vector: pMT73D-pac (Pharmacia) with a modified

polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA

was primed with a Not I - oligo(dT) primer [5'

TGTTACCAATCTGAAGTGGAGCGCGCGCTGTCTTTTTTTTTTTTTTTT

3']; double-stranded cDNA was ligated to Eco RI adaptors

(Pharmacia), digested with Not I and cloned into the Not I

and Eco RI sites of the modified pMT73 vector. RNA

provided by Dr. Bertrand Jordan. Library went through

three rounds of normalization, and was constructed by

Bento Soares and M.Fatima Bonaldo."

ORIGIN

Query Match 77.7%; Score 20.2; DB 12; Length 442;

Best Local Similarity 88.0%; Pred. No. 3.8e+02;

Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 CTCTGGAAGTCTGCCAGTGTCTT 26

|||||

Db 232 CTCTGGAAGTCTGCAATGTCTT 208

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RESULT 11

B468570/c

LOCUS

DEFINITION

musculus cDNA clone D230019P08 3', mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

1 (bases 1 to 689)

Arakawa, T., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T.,

Hara, A., Hiramoto, K., Hori, F., Ishii, Y., Ito, M., Kawai, J.,

Konno, H., Kouda, M., Koya, S., Matsuyama, T., Miyazaki, A., Nomura, K.,

Ohno, M., Okazaki, Y., Okido, T., Saito, R., Sakai, C., Sakai, K.,

Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T.,

Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F.,

Takeda, Y., Tanaka, T., Toya, T., Muramatsu, M. and Hayashizaki, Y.

RIKEN Mouse ESTs (Arakawa, T., et al. 2001)

Unpublished (2001)

TITLE

JOURNAL

COMMENT

On Jul 22, 2000 this sequence version replaced gi:9385759.

Contact: Yoshihide Hayashizaki

Laboratory for Genome Exploration Research Group, RIKEN Genomic

Sciences Center (GSC), Yokohama Institute

The Institute of Physical and Chemical Research (RIKEN)

1-7-22 Shihoko-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan

Tel: 81-45-503-9222

Fax: 81-45-503-9216

Email: genome-res@sc.riken.go.jp,

URL: http://genome.sc.riken.go.jp/

Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,

Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.

Normalization and subtraction of cap-trapper-selected cDNAs to

prepare full-length cDNA libraries for rapid discovery of new

genes. Genome Res. 10 (10), 1617-1630 (2000)

wagui, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E.,

Watanabe, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T.,

Matsuura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
 RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)
 Konno, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara, Y. and Hayashizaki, Y.
 Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)
 Kondo, S., Shinagawa, A., Saito, T., Kiyosawa, H., Yamanaka, I., Aizawa, K., Fukuda, S., Hara, A., Itoh, M., Kawai, J., Shibata, K. and Hayashizaki, Y.
 Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome 12, 673-677 (2001)
 Please visit our web site (<http://genome.gsc.riken.go.jp/>) for further details.
 cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.
 Location/Qualifiers
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 /organism="Mus musculus"
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 /note="Site 1: Sali; Site 2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGCGCGCACTCGAGTCTTTTCTTTTNN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGATCTCGATTATTAATATCCGCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pluescript KS(+) after bulk excision from Lambda PLC I."

ORIGIN

Query Match 77.7%; Score 20.2; DB 10; Length 689;
 Best Local Similarity 86.0%; Pred. No. 4.4e+02;
 Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 CTCTCGAAGTCTGCCAGTGCCTT 26
 |||||
 Db 95 CTCTCGAAGACAGCCAGTGTCTT 71
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RESULT 12

BB195256/c
 LOCUS BB195256 693 bp mRNA linear EST 19-OCT-2001
 DEFINITION BB195256 RIKEN full-length enriched, adult male spinal cord Mus musculus cDNA clone A330087124 3', mRNA sequence.

BB195256
 BB195256.2 GI:16270936

KEYWORDS

EST.
 Mus musculus (house mouse)

SOURCE

Mus musculus
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 693)

REFERENCE

1 Arakawa, T., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T.,

Hara, A., Hiramoto, K., Hori, F., Ishii, Y., Ito, M., Kawai, J., Konno, H., Kouda, M., Koya, S., Matsuyama, T., Miyazaki, A., Nomura, K., Ohno, M., Okazaki, Y., Okido, T., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Takeda, Y., Tanaka, T., Toyota, T., Muramatsu, M. and Hayashizaki, Y.
 RIKEN Mouse ESTs (Arakawa, T., et al. 2001)
 Unpublished (2001)

TITLE

JOURNAL

COMMENT

On Jun 30, 2000 this sequence version replaced gi:8855875.

Contact: Yoshihide Hayashizaki

Laboratory for Genome Exploration Research Group, RIKEN Genomic

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The Institute of Physical and Chemical Research (RIKEN)

1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan

Tel: 81-45-503-9222

Fax: 81-45-503-9216

Email: genome-res@genome.gsc.riken.go.jp,

URL: <http://genome.gsc.riken.go.jp/>

Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,

Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.

Normalization and subtraction of cap-trapper-selected cDNAs to

prepare full-length cDNA libraries for rapid discovery of new

genes. Genome Res. 10 (10), 1617-1630 (2000)

wagi, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E.,

Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T.,

Matsuura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A.

and Hayashizaki, Y.

RIKEN integrated sequence analysis (RISA) system-384-format

sequencing pipeline with 384 multicapillary sequencer. Genome Res.

10 (11), 1757-1771 (2000)

Konno, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P.,

Sugahara, Y. and Hayashizaki, Y.

Computer-based methods for the mouse full-length cDNA

encyclopedia: real-time sequence clustering for construction of a

nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)

Kondo, S., Shinagawa, A., Saito, T., Kiyosawa, H., Yamanaka, I.,

Aizawa, K., Fukuda, S., Hara, A., Itoh, M., Kawai, J., Shibata, K. and

Hayashizaki, Y.

Computational Analysis of Full-Length Mouse cDNAs Compared with

Human Genome Sequences Mamm. Genome 12, 673-677 (2001)

Please visit our web site (<http://genome.gsc.riken.go.jp/>) for

further details.

cDNA library was prepared and sequenced in Mouse Genome

Encyclopedia Project of Genome Exploration Research Group in Riken

Genomic Sciences Center and Genome Science Laboratory in RIKEN.

Division of Experimental Animal Research in Riken contributed to

prepare mouse tissues.

FEATURES

source

1..693

/organism="Mus musculus"

/mol_type="mRNA"

/db_xref="taxon:10090"

/clone="A330087124"

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/tissue_type="spinal cord"

/dev_stage="adult"

/lab_host="DH10B"

/clone_lib="RIKEN full-length enriched, adult male spinal

cord"

/note="Site 1: Sali; Site 2: BamHI; cDNA library was

prepared and sequenced in Mouse Genome Encyclopedia

Project of Genome Exploration Research Group in Riken

Genomic Sciences Center and Genome Science Laboratory in

RIKEN. Division of Experimental Animal Research in Riken

contributed to prepare mouse tissues. 1st strand cDNA was

primed with a primer [5'

GAGAGAGAGATCTCGAGTCTTTTCTTTTNN 3'], cDNA was

prepared by using trehalose thermo-activated reverse

transcriptase and subsequently enriched for full-length by

cap-trapper. cDNA went through one round of normalization

to Rot = 10.0 and subtraction to Rot = 459.0. Second

strand cDNA was prepared with the primer adapter of

sequence [5' GAGAGAGAGATCTCGAGTCTTTTCTTTTNN 3']

TITLE Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs

JOURNAL Nature 420, 563-573 (2002)

REFERENCE 6 (bases 1 to 1226)

AUTHORS Adachi, J., Aizawa, K., Akahira, S., Akimura, T., Arai, A., Aono, H., Arakawa, T., Bono, H., Carrino, P., Fukuda, S., Fukunishi, Y., Furuno, M., Hanganaki, T., Hara, A., Hayatsu, N., Hiramoto, Y., Hiraoka, R., Hori, F., Imotani, K., Ishii, Y., Itch, M., Izawa, M., Kasukawa, T., Kato, H., Kawaji, J., Kohima, Y., Konno, H., Kouda, M.,

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ORIGIN
      77.7%;   Score 20.2;   DB 11;   Length 1226;
Query Match
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Matches 22;   Conservative 0;   Mismatches 3;   Indels 0;   Gaps 0;
QY      2  CTTCTGGAAGTCTGCCAGTGTCTTT 26
Db      1018  CTTCTGGAAGTCTGACAGTGTCCAT 1042

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RESULT 14
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 LOCUS
 DEFINITION
 Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library, clone:A330087124 product:unclassifiable, full insert sequence.
 AK039689 3016 bp mRNA linear HTC 19-SEP-2003
 AK039689.1 GI:26087341
 VERSION
 HTG; CAP trapper.
 KEYWORDS
 Mus musculus (house mouse)
 ORGANISM
 Mus musculus
 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1
 Carninci, P. and Hayashizaki, Y.
 TITLE
 High-efficiency full-length cDNA cloning
 JOURNAL
 Meth. Enzymol. 303, 19-44 (1999)
 MEDLINE
 99279253
 PUBMED
 10349636
 REFERENCE
 2
 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 TITLE
 Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes
 JOURNAL
 Genome Res. 10 (10), 1617-1630 (2000)
 MEDLINE
 20499374
 PUBMED
 11042159
 REFERENCE
 3
 Shibata, K., Itoh, M., Aizawa, K., Nagasaka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitsuai, T., Iashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishino, T., Harada, A., Yanamoto, K., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwaki, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsunaga, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
 TITLE
 RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multipipillary sequencer
 JOURNAL
 Genome Res. 10 (11), 1757-1771 (2000)
 MEDLINE
 20530913
 PUBMED
 11076861
 REFERENCE
 4
 The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.
 TITLE
 Functional annotation of a full-length mouse cDNA collection
 JOURNAL
 Nature 409, 685-690 (2001)
 REFERENCE
 5
 The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
 TITLE
 Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
 JOURNAL
 Nature 420, 563-573 (2002)
 MEDLINE
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 PUBMED
 12042159
 REFERENCE
 6
 (bases 1 to 3016)
 Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, M., Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T., Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M., Koyama, S., Kurahara, C., Matsuyama, T., Miyazaki, A., Murata, M., Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N., Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N., Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S., Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A., Muramatsu, M. and Hayashizaki, Y.
 TITLE
 Direct Submission
 JOURNAL
 Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-res@gsc.riken.go.jp).
 URL: http://genome.gsc.riken.go.jp/ Tel: 81-45-503-9222, Fax: 81-45-503-9216
 COMMENT
 cDNA library was prepared and sequenced in Mouse Genome

Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.
 Please visit our web site for further details.
 URL: http://genome.gsc.riken.go.jp/
 URL: http://fantom.gsc.riken.go.jp/.

FEATURES
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ORIGIN
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 Best Local Similarity 88.0%; Pred. No. 7.6e+02;
 Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 CTTCTGGAAGTCTGCAGTCTCTT 26
 Db 2918 CTTCTGGAAGTCTGCAGTCTCTT 2894

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 genomic survey sequence.
 CG508158
 CG508158.1 GI:37290088
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 KEYWORDS
 Mus musculus (house mouse)
 ORGANISM
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 276)
 Zambrowicz, B.P., Abuin, A., Ramirez-Solis, R., Richter, L.J., Piggett, J., BeltrandelRio, H., Buxton, E.C., Edwards, J., Finch, R.A., Fiddle, C.J., Gupta, A., Hansen, G., Hu, Y., Huang, W., Jaing, C., Key, B.W. Jr., Kipp, P., Kohlhauff, B., Ma, Z.-Q., Markesich, D., Payne, R., Potter, D.G., Qian, N., Shaw, J., Schrick, J., Shi, Z.-Z., Sparks, M.J., Van Slightenhorst, I., Vogel, P., Walke, W., Xu, N., Zhu, Q., Person, C. and Sands, A.I.
 TITLE
 Wnk1 kinase deficiency lowers blood pressure in mice: a gene-trap screen to identify potential targets for therapeutic intervention
 JOURNAL
 Proc. Natl. Acad. Sci. U.S.A. 100 (24), 14109-14114 (2003)
 COMMENT
 Contact: Zambrowicz Bp
 OmniBank
 Lexicon Genetics Incorporated
 4000 Research Forest Drive, The Woodlands, TX 77381, USA
 Email: materials@lexgen.com
 Gene trap sequence tag generated by 3' RACE from mouse ES cells as described in Zambrowicz et al (Nature. 1998 Apr 9;392(6676):608-11)
 Class: Gene Trap.

FEATURES
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ORIGIN

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 Best Local Similarity 84.0%; Pred. No. 4.8e+02;
 Matches 21; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 2 CTTCGGAAGTCTGCCAGTGTCTT 26
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 Db 183 CTTCGGAAGTCTGCCAGTGTCTT 159
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Search completed: February 20, 2004, 01:41:40
 Job time : 176.149 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 21:32:00 ; Search time 4.21902 Seconds
(without alignments)
3419.919 Million cell updates/sec

Title: US-09-939-853A-141

Perfect score: 26

Sequence: 1 cctctggaagtcgccagtcctt 26

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 27747546 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 3: /cgn2_6/prodata/2/ina/6A COMB.seq:*
- 4: /cgn2_6/prodata/2/ina/6B COMB.seq:*
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- 6: /cgn2_6/prodata/2/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
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2	18.8	72.3	423	4	US-09-984-186-11
3	18.8	72.3	600	4	US-09-101-272G-72
4	18.8	72.3	624	4	US-09-101-272G-79
5	18.8	72.3	645	4	US-09-101-272G-95
6	18.8	72.3	666	4	US-09-101-272G-97
7	18.8	72.3	1233	1	US-08-254-922-1
8	18.8	72.3	1233	1	US-08-286-748B-1
9	18.8	72.3	1236	1	US-07-957-039A-7
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11	18.8	72.3	1236	4	US-09-023-655-927
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17	18.8	72.3	1475	4	US-09-221-107-123
18	18.8	72.3	2294	4	US-09-643-597-123
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26	17.8	68.5	9511	4	US-09-562-702A-9
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C

ALIGNMENTS

RESULT 1

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; Patent No. 5876969
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; APPLICANT: Fournier, Alain
; APPLICANT: Guitton, Jean-Dominique
; APPLICANT: Jung, Gerard
; APPLICANT: Yeh, Patrice
; TITLE OF INVENTION: NOVEL BIOLOGICALLY ACTIVE POLYPEPTIDES,
; TITLE OF INVENTION: PREPARATION THEREOF AND PHARMACEUTICAL COMPOSITION
; TITLE OF INVENTION: CONTAINING SAID POLYPEPTIDES
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Road, 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: System 7.1
; SOFTWARE: Word 5.1 (patentIn)
; CURRENT APPLICATION DATA: US/08797,689
; FILING DATE: 31-JAN-1997
; APPLICATION NUMBER: US/08797,689
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/256,927
; FILING DATE: 28-JUL-1994
; APPLICATION NUMBER: FR 92/01064
; FILING DATE: 31-JAN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR93/00085
; FILING DATE: 28-JAN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith Ph.D., Julie K.
; REGISTRATION NUMBER: P-38,619
; REFERENCE/DOCKET NUMBER: ST92006-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 454-3839
; TELEFAX: (610) 454-3808
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double

C 28	17.6	67.7	908	4	US-09-800-729-25	Sequence 25, Appl
C 29	17.2	66.2	1335	1	US-07-942-157A-2	Sequence 2, Appl
C 30	17	65.4	274	4	US-09-313-294A-3335	Sequence 3335, Ap
C 31	17	65.4	449	4	US-09-621-976-14601	Sequence 14601, A
C 32	17	65.4	501	4	US-09-621-976-1584	Sequence 1584, Ap
C 33	17	65.4	1001	4	US-09-641-638-285	Sequence 285, App
C 34	17	65.4	3364	2	US-08-735-609-9	Sequence 9, Appl
C 35	17	65.4	3364	2	US-08-735-609-9	Sequence 9, Appl
C 36	17	65.4	3364	3	US-09-315-372-9	Sequence 9, Appl
C 37	17	65.4	3364	3	US-09-244-752-9	Sequence 9, Appl
C 38	17	65.4	3364	3	US-09-245-497-9	Sequence 9, Appl
C 39	17	65.4	3364	4	US-09-562-919-9	Sequence 9, Appl
C 40	17	65.4	8147	4	US-09-514-247A-9	Sequence 9, Appl
C 41	16.6	63.8	2157	1	US-08-336-618-25	Sequence 25, Appl
C 42	16.6	63.8	2200	2	US-08-462-481-3	Sequence 2, Appl
C 43	16.6	63.8	2200	2	US-08-436-771-5	Sequence 5, Appl
C 44	16.6	63.8	2200	2	US-08-434-998-5	Sequence 5, Appl
C 45	16.6	63.8	2200	2	US-08-487-797-5	Sequence 5, Appl


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; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..419
; US-08-797-689-11
Query Match 72.3%; Score 18.8; DB 2; Length 423;
Best Local Similarity 90.9%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 5 CTGGAAGTCTGCCAGTGTCTT 26
Db 230 CTGGAAGTCTGCCAGTGTCTT 251

RESULT 2
US-09-984-186-11
; Sequence 11, Application US/09984186
; Patent No. 6686179
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; Fournier, Alain
; Guitton, Jean-Dominique
; Jung, Gerard
; Yeh, Patrice
; TITLE OF INVENTION: NOVEL BIOLOGICALLY ACTIVE POLYPEPTIDES,
; PREPARATION THEREOF AND PHARMACEUTICAL COMPOSITION
; CONTAINING SAID POLYPEPTIDES
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Road, 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: System 7.1
; SOFTWARE: Word 5.1 (PatentIn)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/984,186
; FILING DATE: 29-Oct-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/797,689
; FILING DATE: 31-JAN-1997
; APPLICATION NUMBER: US 08/256,927
; FILING DATE: 28-JUL-1994
; APPLICATION NUMBER: FR 92/01064
; FILING DATE: 31-JAN-1992
; APPLICATION NUMBER: PCT/FR93/00085
; FILING DATE: 28-JAN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith Ph.D., Julie K.
; REGISTRATION NUMBER: P-38,619
; REFERENCE/DOCKET NUMBER: ST92006-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 454-3839
; TELEFAX: (610) 454-3808
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..419
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
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US-09-984-186-11
Query Match 72.3%; Score 18.8; DB 4; Length 423;
Best Local Similarity 90.9%; Pred. No. 11;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 5 CTGGAAGTCTGCCAGTGTCTT 26
Db 230 CTGGAAGTCTGCCAGTGTCTT 251

RESULT 3
US-09-101-272G-72
; Sequence 72, Application US/09101272G
; Patent No. 6509445
; GENERAL INFORMATION:
; APPLICANT: Nissin Food Products Co., Ltd.
; TITLE OF INVENTION: CANCEROUS METASTASIS INHIBITOR
; FILE REFERENCE: Q50979
; CURRENT APPLICATION NUMBER: US/09/101,272G
; CURRENT FILING DATE: 1998-07-08
; PRIOR APPLICATION NUMBER: JP 1059/1996
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 72
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: ATF domain of uPA
; NAME/KEY: CDS
; LOCATION: (1)..(600)
; OTHER INFORMATION:
; NAME/KEY: mat_peptide
; LOCATION: (61)..(1)
; OTHER INFORMATION:
; US-09-101-272G-72
Query Match 72.3%; Score 18.8; DB 4; Length 600;
Best Local Similarity 90.9%; Pred. No. 12;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 5 CTGGAAGTCTGCCAGTGTCTT 26
Db 279 CTGGAAGTCTGCCAGTGTCTT 300

RESULT 4
US-09-101-272G-79
; Sequence 79, Application US/09101272G
; Patent No. 6509445
; GENERAL INFORMATION:
; APPLICANT: Nissin Food Products Co., Ltd.
; TITLE OF INVENTION: CANCEROUS METASTASIS INHIBITOR
; FILE REFERENCE: Q50979
; CURRENT APPLICATION NUMBER: US/09/101,272G
; CURRENT FILING DATE: 1998-07-08
; PRIOR APPLICATION NUMBER: JP 1059/1996
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 79
; LENGTH: 624
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: ATFHI chimeric protein
; NAME/KEY: CDS
; LOCATION: (12)..(593)
; OTHER INFORMATION:
; NAME/KEY: mat_peptide
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; NAME/KEY: mat_peptide
; LOCATION: (15)..()
; OTHER INFORMATION:
US-09-101-272G-95

Query Match          72.3%; Score 18.8; DB 4; Length 624;
Best Local Similarity 90.9%; Pred. No. 12;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
DB 233 CTGGAAGTCTGCCAGTGTCTT 254

RESULT 5
US-09-101-272G-95
; Sequence 95, Application US/09101272G
; Patent No. 6509445
; GENERAL INFORMATION:
; APPLICANT: Nissin Food Products Co., Ltd.
; TITLE OF INVENTION: CANCEROUS METASTASIS INHIBITOR
; FILE REFERENCE: Q50979
; CURRENT APPLICATION NUMBER: US/09/101,272G
; CURRENT FILING DATE: 1998-07-08
; PRIOR APPLICATION NUMBER: JP 1059/1996
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 95
; LENGTH: 645
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: ATPHI-CL chimeric protein
; NAME/KEY: CDS
; LOCATION: (12)..(614)
; OTHER INFORMATION:
; NAME/KEY: mat_peptide
; LOCATION: (15)..()
; OTHER INFORMATION:
US-09-101-272G-95

Query Match          72.3%; Score 18.8; DB 4; Length 645;
Best Local Similarity 90.9%; Pred. No. 12;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
DB 233 CTGGAAGTCTGCCAGTGTCTT 254

RESULT 6
US-09-101-272G-97
; Sequence 97, Application US/09101272G
; Patent No. 6509445
; GENERAL INFORMATION:
; APPLICANT: Nissin Food Products Co., Ltd.
; TITLE OF INVENTION: CANCEROUS METASTASIS INHIBITOR
; FILE REFERENCE: Q50979
; CURRENT APPLICATION NUMBER: US/09/101,272G
; CURRENT FILING DATE: 1998-07-08
; PRIOR APPLICATION NUMBER: JP 1059/1996
; PRIOR FILING DATE: 1996-01-08
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 97
; LENGTH: 666
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: ATPHI-ML chimeric protein
; NAME/KEY: CDS
; LOCATION: (12)..(635)
; OTHER INFORMATION:

; NAME/KEY: mat_peptide
; LOCATION: (15)..()
; OTHER INFORMATION:
US-09-101-272G-97

Query Match          72.3%; Score 18.8; DB 4; Length 666;
Best Local Similarity 90.9%; Pred. No. 12;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
DB 233 CTGGAAGTCTGCCAGTGTCTT 254

RESULT 7
US-08-254-922-1
; Sequence 1, Application US/08254922
; Patent No. 5626841
; GENERAL INFORMATION:
; APPLICANT: Victor Gurewich
; TITLE OF INVENTION: USE OF INTRA-PLATELET
; TITLE OF INVENTION: UROKINASE-TYPE PLASMINOGEN
; TITLE OF INVENTION: ACTIVATORS FOR LONG-TERM
; TITLE OF INVENTION: INHIBITION OF THROMBOSIS
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; COMPUTER: IBM PS/2 Model 50Z or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/254,922
; FILING DATE: June 7, 1994
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/014,207 -
; FILING DATE: February 5, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: J. Peter Fasse
; REGISTRATION NUMBER: 32,983
; REFERENCE/DOCKET NUMBER: 04353/004002
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1233
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-254-922-1

Query Match          72.3%; Score 18.8; DB 1; Length 1233;
Best Local Similarity 90.9%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
DB 219 CTGGAAGTCTGCCAGTGTCTT 240

RESULT 8
US-08-286-748B-1
; Sequence 1, Application US/08286748B
; Patent No. 5759542
```

GENERAL INFORMATION:
APPLICANT: Victor Gurewicz
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DELIVERY
OF DRUGS BY PLATELETS FOR THE TREATMENT OF
CARDIOVASCULAR AND OTHER DISEASES
CLASSIFICATION: 435
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: 04547/013001
FILING DATE: August 5, 1994
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: J. Peter Fasse
REGISTRATION NUMBER: 32,983
REFERENCE/DOCKET NUMBER: 04547/013001
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1233
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-286-748B-1

Query Match 72.3%; Score 18.8; DB 1; Length 1233;
Best Local Similarity 90.9%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
DB 219 CTGGAAGTCTGCCAGTGTCTT 240

RESULT 9
US-07-957-039A-7
Sequence 7, Application US/07957039A
Patent No. 5389538
GENERAL INFORMATION:
APPLICANT: TANABE, TOSHIZUMI
APPLICANT: MORITA, MASANORI
APPLICANT: HIROSE, MASAAKI
APPLICANT: ANASUI, YASUO
TITLE OF INVENTION: MUTANT HUMAN PROUROKINASE
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sughrue, Mion, Zinn, Macpeak & Seas
STREET: 2100 Pennsylvania Avenue
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/957,039A
FILING DATE: 06-OCT-1992
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 289257/1991
FILING DATE: 07-OCT-1991
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)293-7060
TELEFAX: (202)293-7860
TELEX: 6491103
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 1236 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: both
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: human
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1233
US-07-957-039A-7

Query Match 72.3%; Score 18.8; DB 1; Length 1236;
Best Local Similarity 90.9%; Pred. No. 14;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
DB 219 CTGGAAGTCTGCCAGTGTCTT 240

RESULT 10
US-08-153-799-17
Sequence 17, Application US/08153799
Patent No. 5768883
GENERAL INFORMATION:
APPLICANT: Ballance, David J
APPLICANT: Goodey, Andrew R
TITLE OF INVENTION: Polypeptides
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: R Hain Swope, BOC Health Care Inc
STREET: 100 Mountain Avenue
CITY: Murray Hill
STATE: New Jersey
COUNTRY: USA
ZIP: 07974
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/153,799
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/847975
FILING DATE: 06-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 8909916.2
FILING DATE: 29-APR-1989
PRIOR APPLICATION DATA: PCT/GB90/00650
APPLICATION NUMBER:
FILING DATE: 26-APR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/775952
FILING DATE: 29-OCT-1991
ATTORNEY/AGENT INFORMATION:
NAME: Swope, R Hain

```

; REGISTRATION NUMBER: 24864
; REFERENCE/DOCKET NUMBER: 92H832
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 665 2400
; TELEFAX: (908) 771 6159
; TELEX: 219484
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1236 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1236
; OTHER INFORMATION: /function= "human mature
; OTHER INFORMATION: urokinase-type plasminogen activator (uPA)"
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 13..47
; OTHER INFORMATION: /standard_name= "PCR primer binding
; OTHER INFORMATION: site"
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: 376..418
; OTHER INFORMATION: /standard_name= "PCR primer binding
; OTHER INFORMATION: site"
;
; US-08-153-799-17
;
; Query Match 72.3%; Score 18.8; DB 1; Length 1236;
; Best Local Similarity 90.9%; Pred. No. 14;
; Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
;
; QY 5 CTGGAAGTCTGCCAGTGTCTT 26
; DB 219 CTGGAAGTCTGCCAGTGTCTT 240
;
; RESULT 11
; US-09-023-655-927
; Sequence 927, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1506
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
;
; us-09-939-853a-141.rni
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 927:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1236 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g1311467
;
; US-09-023-655-927
;
; Query Match 72.3%; Score 18.8; DB 4; Length 1236;
; Best Local Similarity 90.9%; Pred. No. 14;
; Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
;
; QY 5 CTGGAAGTCTGCCAGTGTCTT 26
; DB 219 CTGGAAGTCTGCCAGTGTCTT 240
;
; RESULT 12
; 5219569-1
; Patent No. 5219569
; APPLICANT: BLABER, MICHAEL HEYNEKER, HERBERT L.; VEHAR,
; GORDON A.
; TITLE OF INVENTION: PROTEASE RESISTANT UROKINASE
; NUMBER OF SEQUENCES: 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/766,858
; FILING DATE: 16-AUG-1985
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 725,468
; FILING DATE: 22-APR-1985
; SEQ ID NO: 1:
; LENGTH: 1372
;
; 5219569-1
;
; Query Match 72.3%; Score 18.8; DB 6; Length 1372;
; Best Local Similarity 90.9%; Pred. No. 14;
; Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
;
; QY 5 CTGGAAGTCTGCCAGTGTCTT 26
; DB 355 CTGGAAGTCTGCCAGTGTCTT 376
;
; RESULT 13
; US-09-643-597-122
; Sequence 122, Application US/09643597
; Patent No. 6426072
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy
; APPLICANT: Fanger, Gary R.
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Henderson, Robert A.
; APPLICANT: McNeill, Patricia D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455c11
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; CURRENT APPLICATION NUMBER: US/09/643,597
; CURRENT FILING DATE: 2000-08-21
; NUMBER OF SEQ ID NOS: 369
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 122
; LENGTH: 1475
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-643-597-122

Query Match 72.3%; Score 18.8; DB 4; Length 1475;
Best Local Similarity 90.9%; Pred. NO. 14;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTGGAAGTCTGCCAGTGTCTT 26
Db 359 CTGGAAGTCTGCCAGTGTCTT 380

RESULT 14

US-09-480-884A-122
; Sequence 122, Application US/09480884A
; Patent No. 6482597
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C6
; CURRENT APPLICATION NUMBER: US/09/480,884A
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 330
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 122
; LENGTH: 1475
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-480-884A-122

Query Match 72.3%; Score 18.8; DB 4; Length 1475;
Best Local Similarity 90.9%; Pred. NO. 14;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTGGAAGTCTGCCAGTGTCTT 26
Db 359 CTGGAAGTCTGCCAGTGTCTT 380

RESULT 15

US-09-542-615A-122
; Sequence 122, Application US/09542615A
; Patent No. 6518256
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Fan, Liqun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Hosken, Nancy A.
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.455C8
; CURRENT APPLICATION NUMBER: US/09/542,615A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 350
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 122
; LENGTH: 1475
; TYPE: DNA
; ORGANISM: Homo sapien

US-09-542-615A-122

Query Match 72.3%; Score 18.8; DB 4; Length 1475;
Best Local Similarity 90.9%; Pred. NO. 14;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTGGAAGTCTGCCAGTGTCTT 26
Db 359 CTGGAAGTCTGCCAGTGTCTT 380

Search completed: February 20, 2004, 01:45:11
Job time : 6.21902 secs

Result No.	Score	Query #		Length	DB	ID	Description
		Match					
C 1	26	100.0	444	9	US	09-0867-550-951	Sequence 951, App
C 2	26	100.0	763	9	US	09-0867-550-953	Sequence 953, App
C 3	26	100.0	864	10	US	10-0147-353-21302	Sequence 21302, A
C 4	20.4	78.5	611	15	US	10-0207-632-195852	Sequence 195852
5	18.6	72.3	258	15	US	10-0333-675A-2	Sequence 2, Appl i
6	18.8	72.3	258	15	US	10-0333-675A-6	Sequence 6, Appl i
7	18.8	72.3	258	15	US	10-0333-675A-8	Sequence 8, Appl i
8	18.8	72.3	258	15	US	10-0333-675A-23	Sequence 23, Appl i
9	18.8	72.3	258	15	US	10-0333-675A-26	Sequence 26, Appl i
10	18.8	72.3	264	9	US	09-0860-503-10	Sequence 10, Appl i
11	18.8	72.3	288	9	US	09-0860-503-18	Sequence 18, Appl i
12	18.8	72.3	405	9	US	09-0880-503-13	Sequence 13, Appl i
13	18.8	72.3	423	9	US	09-0984-186-11	Sequence 11, Appl i
14	18.8	72.3	423	14	US	10-0337-667-11	Sequence 11, Appl i
15	18.8	72.3	423	14	US	10-0337-708-11	Sequence 11, Appl i

```

; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Mehraban, Fuad.
; APPLICANT: Conley, Pamela
; APPLICANT: Law, Debbie
; APPLICANT: Topper, James
; TITLE OF INVENTION: No. US20020082206A1el Polynucleotides from Atherogenic Cells and
; FILE REFERENCE: 21402-013 (Cura-313)
; CURRENT APPLICATION NUMBER: US/09/867,550
; PRIOR FILING DATE: 2001-09-20
; PRIOR APPLICATION NUMBER: USSN 60/208,427
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 2125
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 953
; LENGTH: 763
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-867-550-953

Query Match      100.0%; Score 26; DB 9; Length 763;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTCTGGAAGTCTGCCAGTGCCTT 26
DB 164 CCTCTGGAAGTCTGCCAGTGCCTT 139

RESULT 3
US-09-814-353-21302/c
; Sequence 21302, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; FILE REFERENCE: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21302
; LENGTH: 864
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1, 2, 3, 32, 862, 863, 864
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-21302

Query Match      100.0%; Score 26; DB 10; Length 864;
Best Local Similarity 100.0%; Pred. No. 0.013;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCTCTGGAAGTCTGCCAGTGCCTT 26

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DB 328 CCTCTGGAAGTCTGCCAGTGCCTT 303

RESULT 4
US-10-027-632-195852
; Sequence 195852, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 195852
; LENGTH: 611
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-195852

Query Match      78.5%; Score 20.4; DB 15; Length 611;
Best Local Similarity 95.5%; Pred. No. 5.9;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCTCTGGAAGTCTGCCAGTGC 23
DB 484 CCTCTGGAAGTCTGCCAGTGC 505

RESULT 5
US-10-233-675A-2
; Sequence 2, Application US/10233675A
; Publication No. US20030228298A1
; GENERAL INFORMATION:
; APPLICANT: Nesbit, Mark
; APPLICANT: Fong, Timothy
; APPLICANT: Brockstedt, Dirk
; TITLE OF INVENTION: Abrogen Polypeptides, Nucleic Acids Encoding Them and Methods for
; TITLE OF INVENTION: Them To Inhibit Angiogenesis
; FILE REFERENCE: ST01027
; CURRENT APPLICATION NUMBER: US/10/233,675A
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 60/316,300
; PRIOR FILING DATE: 2001-09-04
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 258
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: human derived abrogen
US-10-233-675A-2

Query Match      72.3%; Score 18.8; DB 15; Length 258;
Best Local Similarity 90.9%; Pred. No. 33;

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Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
|||||
Db 78 CTGGAAGTCTGCCAGTGTCTT 99

RESULT 6

US-10-233-675A-6
; Sequence 6, Application US/102333675A
; Publication No. US20030228298A1
; GENERAL INFORMATION:
; APPLICANT: Nesbit, Mark
; APPLICANT: Fong, Timothy
; APPLICANT: Brockstedt, Dirk
; TITLE OF INVENTION: Abrogen Polypeptides, Nucleic Acids Encoding Them and Methods for
; TITLE OF INVENTION: Them To Inhibit Angiogenesis
; FILE REFERENCE: ST01027
; CURRENT APPLICATION NUMBER: US/10/233,675A
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 60/316,300
; PRIOR FILING DATE: 2001-09-04
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 258
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: human derived abrogen
US-10-233-675A-6

Query Match 72.3%; Score 18.8; DB 15; Length 258;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
|||||
Db 78 CTGGAAGTCTGCCAGTGTCTT 99

RESULT 7

US-10-233-675A-8
; Sequence 8, Application US/102333675A
; Publication No. US20030228298A1
; GENERAL INFORMATION:
; APPLICANT: Nesbit, Mark
; APPLICANT: Fong, Timothy
; APPLICANT: Brockstedt, Dirk
; TITLE OF INVENTION: Abrogen Polypeptides, Nucleic Acids Encoding Them and Methods for
; TITLE OF INVENTION: Them To Inhibit Angiogenesis
; FILE REFERENCE: ST01027
; CURRENT APPLICATION NUMBER: US/10/233,675A
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 60/316,300
; PRIOR FILING DATE: 2001-09-04
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 258
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: human derived abrogen
US-10-233-675A-8

Query Match 72.3%; Score 18.8; DB 15; Length 258;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
|||||
Db 78 CTGGAAGTCTGCCAGTGTCTT 99

RESULT 8

US-10-233-675A-23
; Sequence 23, Application US/102333675A
; Publication No. US20030228298A1
; GENERAL INFORMATION:
; APPLICANT: Nesbit, Mark
; APPLICANT: Fong, Timothy
; APPLICANT: Brockstedt, Dirk
; TITLE OF INVENTION: Abrogen Polypeptides, Nucleic Acids Encoding Them and Methods for
; TITLE OF INVENTION: Them To Inhibit Angiogenesis
; FILE REFERENCE: ST01027
; CURRENT APPLICATION NUMBER: US/10/233,675A
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 60/316,300
; PRIOR FILING DATE: 2001-09-04
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23
; LENGTH: 258
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fragment of human urokinase plasminogen activator
US-10-233-675A-23

Query Match 72.3%; Score 18.8; DB 15; Length 258;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
|||||
Db 78 CTGGAAGTCTGCCAGTGTCTT 99

RESULT 9

US-10-233-675A-26
; Sequence 26, Application US/102333675A
; Publication No. US20030228298A1
; GENERAL INFORMATION:
; APPLICANT: Nesbit, Mark
; APPLICANT: Fong, Timothy
; APPLICANT: Brockstedt, Dirk
; TITLE OF INVENTION: Abrogen Polypeptides, Nucleic Acids Encoding Them and Methods for
; TITLE OF INVENTION: Them To Inhibit Angiogenesis
; FILE REFERENCE: ST01027
; CURRENT APPLICATION NUMBER: US/10/233,675A
; PRIOR FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 60/316,300
; PRIOR FILING DATE: 2001-09-04
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 26
; LENGTH: 258
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fragment of human urokinase plasminogen activator
US-10-233-675A-26

Query Match 72.3%; Score 18.8; DB 15; Length 258;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
DB 78 CTGGAAGTCTGCCAGTGTCTT 99

RESULT 10

US-09-880-503-10
; Sequence 10, Application US/09880503
; Patent No. US20020131964A1
; GENERAL INFORMATION:
; APPLICANT: CINES, Douglas B
; APPLICANT: HIGAZI, Abd Al-Roof
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR MODULATING MUSCLE CELL AND
; FILE REFERENCE: 9596-331
; CURRENT APPLICATION NUMBER: US/09/880,503
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/212,847
; PRIOR FILING DATE: 2000-06-20
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 264
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-880-503-10

Query Match 72.3%; Score 18.8; DB 9; Length 264;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
DB 78 CTGGAAGTCTGCCAGTGTCTT 99

RESULT 11

US-09-880-503-18
; Sequence 18, Application US/09880503
; Patent No. US20020131964A1
; GENERAL INFORMATION:
; APPLICANT: CINES, Douglas B
; APPLICANT: HIGAZI, Abd Al-Roof
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR MODULATING MUSCLE CELL AND
; FILE REFERENCE: 9596-331
; CURRENT APPLICATION NUMBER: US/09/880,503
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/212,847
; PRIOR FILING DATE: 2000-06-20
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 288
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-880-503-18

Query Match 72.3%; Score 18.8; DB 9; Length 288;
Best Local Similarity 90.9%; Pred. No. 33;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
DB 78 CTGGAAGTCTGCCAGTGTCTT 99

RESULT 12

US-09-880-503-13
; Sequence 13, Application US/09880503
; Patent No. US20020131964A1
; GENERAL INFORMATION:
; APPLICANT: CINES, Douglas B

; APPLICANT: HIGAZI, Abd Al-Roof
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR MODULATING MUSCLE CELL AND
; FILE REFERENCE: 9596-331
; CURRENT APPLICATION NUMBER: US/09/880,503
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/212,847
; PRIOR FILING DATE: 2000-06-20
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 405
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-880-503-13

Query Match 72.3%; Score 18.8; DB 9; Length 405;
Best Local Similarity 90.9%; Pred. No. 34;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
DB 219 CTGGAAGTCTGCCAGTGTCTT 240

RESULT 13

US-09-984-186-11
; Sequence 11, Application US/09984186
; Patent No. US20020151011A1
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; Fournier, Alain
; Guittot, Jean-Dominique
; Jung, Gerard
; Yeh, Patrice

TITLE OF INVENTION: NOVEL BIOLOGICALLY ACTIVE POLYPEPTIDES,
PREPARATION THEREOF AND PHARMACEUTICAL COMPOSITION
CONTAINING SAID POLYPEPTIDES

NUMBER OF SEQUENCES: 36
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rhone-Poulenc Rorer Inc.
STREET: 500 Arcola Road, 3C43
CITY: Collegeville
STATE: PA
COUNTRY: USA
ZIP: 19426

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: System 7.1
SOFTWARE: Word 5.1 (Patentin)
CURRENT APPLICATION DATA: US/09/984,186
APPLICATION NUMBER: US/09/984,186
FILING DATE: 29-Oct-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/797,689
FILING DATE: 31-JAN-1997
APPLICATION NUMBER: US 08/256,927
FILING DATE: 28-JUL-1994
APPLICATION NUMBER: FR 92/01064
FILING DATE: 31-JAN-1992
APPLICATION NUMBER: PCT/FR93/00085
FILING DATE: 28-JAN-1993

ATTORNEY/AGENT INFORMATION:
NAME: Smith, Ph.D., Julie K.
REGISTRATION NUMBER: P-38,619
REFERENCE/DOCKET NUMBER: ST92006-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (610) 454-3839
TELEFAX: (610) 454-3808
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:

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;
; LENGTH: 423 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..419
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-984-186-11

Query Match          72.3%; Score 18.8; DB 9; Length 423;
Best Local Similarity 90.9%; Pred. No. 34;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
Db 230 CTGGAAGTCTGCCAGTGTCTT 251

RESULT 14
US-10-237-667-11
; Sequence 11, Application US/10237667
; Publication No. US20030022308A1
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; Fournier, Alain
; Guitton, Jean-Dominique
; Jung, Gerard
; Yeh, Patrice
;
; TITLE OF INVENTION: NOVEL BIOLOGICALLY ACTIVE POLYPEPTIDES,
; PREPARATION THEREOF AND PHARMACEUTICAL COMPOSITION
; CONTAINING SAID POLYPEPTIDES
;
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Road, 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: System 7.1
; SOFTWARE: Word 5.1 (Patentin)
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/237,667
; FILING DATE: 10-Sep-2002
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/797,689
; FILING DATE: 31-JAN-1997
; APPLICATION NUMBER: US 08/256,927
; FILING DATE: 28-JUL-1994
; APPLICATION NUMBER: FR 92/01064
; FILING DATE: 31-JAN-1992
; APPLICATION NUMBER: PCT/FR93/00085
; FILING DATE: 28-JAN-1993
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith Ph.D., Julie K.
; REGISTRATION NUMBER: P-38,619
; REFERENCE/DOCKET NUMBER: ST92006-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 454-3839
; TELEFAX: (610) 454-3808
;
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
;
; NAME/KEY: CDS
; LOCATION: 3..419
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-10-237-667-11

;
; LENGTH: 423 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..419
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-10-237-708-11

Query Match          72.3%; Score 18.8; DB 14; Length 423;
Best Local Similarity 90.9%; Pred. No. 34;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTGGAAGTCTGCCAGTGTCTT 26
Db 230 CTGGAAGTCTGCCAGTGTCTT 251

RESULT 15
US-10-237-708-11
; Sequence 11, Application US/10237708
; Publication No. US20030036170A1
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; Fournier, Alain
; Guitton, Jean-Dominique
; Jung, Gerard
; Yeh, Patrice
;
; TITLE OF INVENTION: NOVEL BIOLOGICALLY ACTIVE POLYPEPTIDES,
; PREPARATION THEREOF AND PHARMACEUTICAL COMPOSITION
; CONTAINING SAID POLYPEPTIDES
;
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Road, 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: System 7.1
; SOFTWARE: Word 5.1 (Patentin)
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/237,708
; FILING DATE: 10-Sep-2002
; CLASSIFICATION: <Unknown>
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/797,689
; FILING DATE: 31-JAN-1997
; APPLICATION NUMBER: US 08/256,927
; FILING DATE: 28-JUL-1994
; APPLICATION NUMBER: FR 92/01064
; FILING DATE: 31-JAN-1992
; APPLICATION NUMBER: PCT/FR93/00085
; FILING DATE: 28-JAN-1993
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith Ph.D., Julie K.
; REGISTRATION NUMBER: P-38,619
; REFERENCE/DOCKET NUMBER: ST92006-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 454-3839
; TELEFAX: (610) 454-3808
;
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
;
; NAME/KEY: CDS
; LOCATION: 3..419
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-10-237-708-11
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Query Match 72.3%; Score 18.8; DB 14; Length 423;
Best Local Similarity 90.9%; Pred. No. 34;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Cy 5 CTGGAAGTCTGCCAGTGCCTT 26
Db 230 CTGGAAGTCTGCCAGTGCCTT 251

Search completed: February 20, 2004, 05:59:21
Job time : 64.4956 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 21:21:18 / Search time 96.3181 Seconds
(without alignments)
9899.970 Million cell updates/sec

Title: US-09-939-853A-142
Perfect score: 22
Sequence: 1 tgaagagagttctgggtgtrccta 22

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues
Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Result No.	Score	Query Match	Length	DB ID	Description
1	22	100.0	22	6	AX443201 Sequence
2	22	100.0	1183	6	AX443133 Sequence
3	22	100.0	1183	6	AX443135 Sequence
4	22	100.0	2538	9	BC042041 Homo sapi
5	22	100.0	2567	6	AX452880 Sequence
6	22	100.0	2788	6	AX780857 Sequence
7	22	100.0	65741	9	HS450078
8	22	100.0	145833	2	AC026539 Homo sapi
9	19.4	88.2	110900	9	AC005079_2
10	19.4	88.2	170128	2	AC005059 Homo sapi
11	19.4	88.2	224064	2	AC005055 Homo sapi
12	18.8	85.5	3521	3	AY058623 Drosophila
13	18.8	85.5	26121	2	AC015346 Drosophila
14	18.8	85.5	177917	9	AC025824 Homo sapi
15	18.8	85.5	180213	3	AC010847 Drosophila
16	18.8	85.5	182623	3	AC011071 Drosophila
17	18.8	85.5	186540	9	AC012478 Homo sapi
18	18.8	85.5	186674	9	AC091544 Homo sapi
19	18.8	85.5	188365	2	AC116758 Mus muscu
20	18.8	85.5	346474	3	AE003512 Drosophila
21	18.4	83.6	76640	10	AL928847 Mouse DNA
22	18.4	83.6	178980	2	AC120340 Mus muscu
23	18.4	83.6	181751	2	AC101938 Mus muscu
24	18.4	83.6	193252	2	AC122504 Mus muscu
25	18.4	83.6	245603	2	AC124616 Mus muscu
26	18	81.8	226598	2	AC099631 Mus muscu
27	18	81.8	271101	2	AC132376 Mus muscu
28	17.8	80.9	1177	3	AK114842 Ciona int
29	17.8	80.9	2064	6	AX834238 Sequence
30	17.8	80.9	2084	9	AK096566 Homo sapi
31	17.8	80.9	45126	9	AL590402 Human DNA
32	17.8	80.9	70328	9	AL513472 Human DNA
33	17.8	80.9	91125	9	AC004899 Homo sapi
34	17.8	80.9	148869	9	AC024093 Homo sapi
35	17.8	80.9	155085	9	AC010412 Homo sapi
36	17.8	80.9	162190	2	AC020592 Homo sapi
37	17.8	80.9	168670	2	AC139753 Mus muscu
38	17.8	80.9	169072	5	AL929396 Zebrafish
39	17.8	80.9	171343	2	AC016676 Homo sapi
40	17.8	80.9	172980	10	AC126671 Mus muscu
41	17.8	80.9	197012	10	AL669823 Mouse DNA
42	17.8	80.9	202681	2	AC111090 Mus muscu
43	17.8	80.9	204131	2	AC128898 Rattus no
44	17.8	80.9	210194	10	AL805896 Mouse DNA
45	17.8	80.9	216589	9	AY129950 Homo sapi

ALIGNMENTS

RESULT 1	AX443201	Sequence 142 from Patent WO0216599.	22 bp	DNA	linear	PAT 02-JUL-2002
LOCUS	AX443201	Sequence 142 from Patent WO0216599.				
DEFINITION	AX443201	Sequence 142 from Patent WO0216599.				
ACCESSION	AX443201	Sequence 142 from Patent WO0216599.				
VERSION	AX443201.1	GI:21690596				
KEYWORDS						
SOURCE						
ORGANISM						
REFERENCE						
AUTHORS						
TITLE						

Pred. No. is the number of results predicted by chance to have a

JOURNAL Patent: WO 0216599-A 142 28-FEB-2002;
Curagen Corporation (US); COR THERAPEUTICS, INC. (US)
FEATURES Location/Qualifiers
source 1..22

/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="oligonucleotide primer"

ORIGIN

Query Match 100.0%; Score 22; DB 6; Length 22;
Best Local Similarity 100.0%; Pred. No. 0.27; Indels 0; Gaps 0;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGTCCTA 22
|||||
Db 1 TGAGAGAGTTCTGGGTGTCCTA 22

RESULT 2
AX443133
LOCUS
DEFINITION Sequence 74 from Patent WO0216599.
ACCESSION AX443133
VERSION
KEYWORDS AX443133.1 GI:21690555
SOURCE Homo sapiens (human)
ORGANISM

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Burgess, C.E., Conley, P.B., Grosse, W.M., Hart, M., Kekuda, R.,
Shinkets, R.A., Spytek, K.A., Szekeres, E.S., Tomlinson, J.E.,
Topper, J.N. and Yang, R.B.

TITLE Proteins and nucleic acids encoding same
JOURNAL Patent: WO 0216599-A 74 28-FEB-2002;
Curagen Corporation (US); COR THERAPEUTICS, INC. (US)
FEATURES Location/Qualifiers
source 1..1183

/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 22; DB 6; Length 1183;
Best Local Similarity 100.0%; Pred. No. 0.36; Indels 0; Gaps 0;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGTCCTA 22
|||||
Db 224 TGAGAGAGTTCTGGGTGTCCTA 245

RESULT 3
AX443135/c

LOCUS
DEFINITION Sequence 76 from Patent WO0216599.
ACCESSION AX443135
VERSION
KEYWORDS AX443135.1 GI:21690556
SOURCE Homo sapiens (human)
ORGANISM

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Burgess, C.E., Conley, P.B., Grosse, W.M., Hart, M., Kekuda, R.,
Shinkets, R.A., Spytek, K.A., Szekeres, E.S., Tomlinson, J.E.,
Topper, J.N. and Yang, R.B.

TITLE Proteins and nucleic acids encoding same
JOURNAL Patent: WO 0216599-A 76 28-FEB-2002;
Curagen Corporation (US); COR THERAPEUTICS, INC. (US)
FEATURES Location/Qualifiers
source 1..1183

/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 100.0%; Score 22; DB 6; Length 1183;
Best Local Similarity 100.0%; Pred. No. 0.36; Indels 0; Gaps 0;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGTCCTA 22
|||||
Db 960 TGAGAGAGTTCTGGGTGTCCTA 939

RESULT 4
BC042041
LOCUS
DEFINITION Homo sapiens Src-like-adaptor 2, transcript variant 1, mRNA (cDNA
clone MGC:49845 IMAGE:4429896), complete cds.
ACCESSION BC042041
VERSION
KEYWORDS MGC
SOURCE Homo sapiens (human)
ORGANISM

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F.,
Dhatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Sapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Abrahamson, R.D., Mullaly, S.J., Bosak, S.A., McEwan, P.J.,
McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Fahey, J., Helton, E., Kettaman, M., Madan, A., Rodrigues, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Bitterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E.,
Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.

Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
22388257
12477932
2 (bases 1 to 2538)
Strausberg, R.
Direct Submission
Submitted (23-DEC-2002) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgapsb-remail.nih.gov
Tissue Procurement: DCTD/DTF
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Sequencing Group at the Stanford Human Genome
Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: <http://www-sngc.stanford.edu>
Contact: (Dickson, Mark) medepaxll.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
R. M.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
Series: IRAX Plate: 88 Row: a Column: 20

This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 28416422.

```

FEATURES
source
1..2538
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="MGC:49845 IMAGE:4429896"
/tissue_type="Prostate, adenocarcinoma."
/clone_lib="NIH_MGC_91"
/lab_host="DH10B"
/note="Vector: pCMV-SPORT6"
gene
1..2538
/genes="SLA2"
/note="synonyms: FLJ21992, SLAP-2, C20orf156, MGC49845, SLAP2"
CDS
363..1148
/db_xref="LocusID:84174"
/db_xref="MIM:606577"
/codon_start=1
/product="src-like-adaptor 2, isoform a"
/protein_id="AAH42041.1"
/db_xref="GI:27469843"
/db_xref="LocusID:84174"
/translational="MGSLSRRKSLPSLSVSSVQCGPYTMEAEESKATAVALGSPF
AGGPAELSLRLCGPLIVIEDGDNWTVLSEVSGREINPSVHVAKVSHGWLYEGLSRE
KAEELLLPFGNGALPIRESQRRGRSLSVLSPASPDWRIRHRIHCLDNGWLYI
SPDTPFSIQALVDHYSEIADDTCCLLKPECVLQKAGPLFGKDIPLFTVQRTPLNKK
EDSLLSFGEAA7GEBESLSLEGLRESLSFVLSLNDSEAVSLDDA"
misc_feature
468..632
/note="SH3; Region: SH3 domain. SH3 (Src homology 3)
domains are often indicative of a protein involved in
signal transduction related to cytoskeletal organization.
First described in the Src cytoplasmic tyrosine kinase.
The structure is a partly opened beta barrel"
/db_xref="CDD:pfam00018"
/db_xref="CDD:pfam00018"
misc_feature
642..890
/note="SH2; Region: SH2 domain"
/db_xref="CDD:pfam00017"
ORIGIN
Query Match 100.0%; Score 22; DB 9; Length 2538;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TGAGAGAGTCTGGGTGCTCTA 22
Db 189 TGAGAGAGTCTGGGTGCTCTA 210
RESULT 5
LOCUS
AX452880
DEFINITION
Sequence 1 from Patent WO0242457.
ACCESSION
AX452880
VERSION
AX452880.1 GI:21712520
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Euthera; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Chang, H., Yang, W.P., Wu, Y., Whitney, G.S., Perez-Villar, J.J. and
Kanner, S.B.
Cloning and expression of human slap-2: a novel sh2/sh3
domain-containing human slap homologue having immune cell-specific
expression
Patent: WO 0242457-A 1 30-MAY-2002;
Bristol-Myers Squibb Co. (US)
FEATURES
source
1..2567
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"

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corresponding to the overlapping clone, as we submit sequences with only a small overlap, as described above.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em., EMBL; Sw., SWISSPROT; Tr., TREMBL; Wp., WORMPEP; Information on the WORMPEP database can be found at http://www.sanger.ac.uk/projects/C_elegans/wormpep This sequence was generated from part of bacterial clone contigs of human chromosome 20, constructed by the Sanger Centre Chromosome 20 Mapping Group. Further information can be found at <http://www.sanger.ac.uk/HGP/Chr20>

IMPORTANT: This sequence is not the entire insert of clone RP3-460J8. It may be shorter because we sequence overlapping sections only once, except for a 100 base overlap.

The true right end of clone RP3-460J8 is at 66741 in this sequence. The left end of clone RP3-469A13 is at 41767 in this sequence. The true right end of clone RP5-977B1 is at 100 in this sequence. This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. RP3-460J8 is from the library RP3-3 constructed by the group of Pieter de Jong. For further details see <http://www.chori.org/bacpac/home.htm>

VECTOR: pCYPAC2.

FEATURES

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source
    Location/Qualifiers
        1..66741
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            /db_xref="taxon:9606"
            /chromosome="20"
            /map="q11.21-11.23"
            /clone="RP3-460J8"
            /clone_lib="RP3-3"
            complement(50..544)
            /note="match: GSS: Em:B45150"
            complement(240..7128)
            /gene="dJ977B1.1"
            complement(join(<240..339,6995..7128))
            /gene="dJ977B1.1"
            /product="dJ460J8.2 (novel protein tyrosine kinase with Src homology 2 (SH2) domain)"
            /note="match: cDNAs: Em:AK025645"
            match: ESTs: Em:BG178487
            /evidence=not_experimental
            complement(join(<240..339,6995..7085))
            /gene="dJ977B1.1"
            /note="Continues in Em:AL050318 as dJ977B1.2"
            /codon_start=1
            /evidence=not_experimental
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            /db_xref="GI:15020830"
            /db_xref="GOA:Q9HEQ3"
            /db_xref="SWISS-PROT:Q9HEQ3"
            /translation="VGSUPSRKSLFSPSLSSVQGGPVTMEARSKATAVALGSPF
            AGPALLSLRLGSEPTIVS"
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                2375..2402
                    /note="14 copies 2 mer ta 100% conserved"
                2783..3155
                    /note="match: GSS: Em:AQ807191"
                    complement(6983..7482)
                    /note="match: GSS: Em:AQ556467"
                    complement(6985..7492)
                    /note="match: GSS: Em:AQ556478"
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                        /note="match: STS: Em:HS427J1S"

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repeat_region
    13593..13961
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repeat_region
    14248..14297
        /note="MER21B repeat: matches 374..422 of consensus"
repeat_region
    14594..14614
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repeat_region
    14746..15078
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        complement(17516)
        17519..17686
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            complement(17521)
            complement(17522)
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            32039..32142,37091..37147,46566..46652,48268..48328,
            50163..50225,53242..53362,54429..54534))
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            /product="dJ460J8.1 (continued from dJ469A13.3 in
            Em:AL132768)"
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            Em:X92845 Em:AF004162 Em:U60593 Em:AF045564 Em:AB033921
            Em:AF159092 Em:AF147402 Em:MS9814
            match: ESTs: Em:AA718726 Em:AA039000 Em:AW003952 Em:W89263
            Em:AA325826 Em:AI230982 Em:AA162360 Em:AA445016
            Em:AV002395 Em:FB5147 Em:AI786615 Em:AA113437 Em:AI004026
            Em:T89705 Em:AI786673 Em:AI181197 Em:AA764653 Em:AA316771
            Em:AU035165 Em:AV002368"
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                /note="match: STS: Em:G23762"
                complement(join(19270..19451,20551..20589,22110..22161,
                22247..22282,26087..26134,30796..30847,30986..31051,
                32039..32142,37091..37147,46566..46652,48268..48328,
                50163..50225,53242..53362,54429..54534))
                /gene="dJ469A13.3"
                /note="novel protein (FLJ13556) similar to N-myc
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                HIFGEEQLANDLIQTTRMHIAQDINQLQFLNRSKDLSEIRFLIQGNOKS
                KILKSLTLIVGNSPAVEAVVCSNRLNPINTLLRKWADCGGLPQVQPGKLTAFK
                YFLQMGYIPYQLSHLSTESVPSASMTLARSRTHTSSSLGSGESPFPSRVTQNS
                DGTQSCSPDVLDRHQTMEVSC"
                complement(24246..24780)
                /gene="dJ469A13.3"
                /note="match: GSS: Em:AQ592789"
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                /gene="dJ469A13.3"
                /note="match: GSS: Em:AQ308867"
                34313..34420
                    /note="HY1 repeat: matches 1..109 of consensus"
                    34505..34560
                        /note="28 copies 2 mer ta 78% conserved"
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/note="24 copies 2 mer ta 79% conserved"
42553. .43658
/note="MER52C repeat: matches 1. .1278 of consensus"
47989. .48470
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49391. .49480
/note="45 copies 2 mer ta 76% conserved"
52922. .53120
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match: STS: Em:G55853"
54054. .54477
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57509. .57838
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58856. 59001
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/note="match: GSS: Em:AQ067563"
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59738. .60495
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60719. .61831
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62547. .63174

Query Match 100.0%; Score 22; DB 9; Length 66741;
Best Local Similarity 100.0%; Pred NO. 0.47; 0; Indels 0; Gaps 0;
Matches 22; Conservative 0; Mismatches 0;

QY 1 TGAGAGAGTTCGGGTGCTTA 22
Db 11717 TGAGAGAGTTCGGGTGCTTA 11696

RESULT 8
AC026539 145833 bp DNA linear HTG 27-APR-2000
LOCUS Homo sapiens chromosome 20 clone RP11-712N14 map 20, WORKING DRAFT
DEFINITION AC026539
SEQUENCE AC026539
VERSION AC026539.2 GI:7656813
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 145833)
Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,
Anderson,S., Baldwin,J., Barna,N., Bastien,V., Beda,F.,
Boguslavsky,L., Boukhgalter,B., Brown,A., Burkett,G.,
Campopiano,A., Castelle,A., Choepel,Y., Colangelo,W., Collins,S.,
Collamore,A., Cooke,P., Dekrellano,K., Dewar,K., Diaz,J.S.,
Dodge,S., Domino,M., Doyle,M., Ferrelle,P., Fitzhugh,W., Gage,D.,
Galgand,J., Gardyna,S., Girde,S., Goyette,M., Graham,L.,
Kleland,P., Lander,E., Lander,S., Jones,C., Kann,L., Karatas,A.,
Klein,J., LaRocque,K., Lamazares,R., Landers,T., Lehoczy,J.,
Levine,R., Lieu,C., Liu,G., Locke,K., Macdonald,P., Marquis,N.,
McCarthy,M., McEwan,P., McCurt,A., McKernan,K., Mcpheeters,R.,
Melarim,J., Meneus,L., Mihova,T., Miranda,C., Mlenga,V., Morrow,J.,
Murphy,T., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P.,
O'Neill,D., Olivari,T.M., Oliver,J., Peterson,K., Pierre,N.,
Pisani,C., Pollara,V., Raymond,C., Riley,R., Rogov,P., Rothman,D.,

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Roy,A., Santos,R., Schauer,S., Severy,P., Spencer,B.,
Stange-Thomann,S., Stojanovic,N., Subramanian,A., Talamas,J.,
Tessaye,S., Theodore,J., Tirrell,A., Travers,M., Trigilio,J.,
Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J.,
Young,G., Zainoun,J., Zimmer,A. and Zody,M.
Direct Submission
Submitted (22-MAR-2000) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Apr 27, 2000 this sequence version replaced gi:7283243.
All repeats were identified using RepeatMasker:
Smit,A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: L7115
Center clone name: 712 N.14
----- Summary Statistics
Sequencing vector: M13; M77815; 100% of reads
Assembly program: Phrap; version 0.960731
Consensus quality: 135577 bases at least Q40
Consensus quality: 135703 bases at least Q30
Consensus quality: 139593 bases at least Q20
Insert size: 182000; agarose-fp
Insert size: 142233; sum-of-contigs
Quality coverage: 2.6 in Q20 bases; agarose-fp
Quality coverage: 3.3 in Q20 bases; sum-of-contigs
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* NOTE: This is a 'working draft' sequence. It currently
* consists of 37 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
1 1214: contig of 1214 bp in length
1215 1314: gap of 100 bp
1315 2673: contig of 1359 bp in length
2674 2774: gap of 100 bp
2774 4520: contig of 1747 bp in length
4521 4621: gap of 100 bp
4621 5962: contig of 1341 bp in length
5962 6062: gap of 100 bp
6062 7719: contig of 1658 bp in length
7720 7820: gap of 100 bp
7820 9899: contig of 1980 bp in length
9900 11434: contig of 1535 bp in length
11435 11535: gap of 100 bp
11535 14383: contig of 2848 bp in length
14383 17148: gap of 100 bp
17148 17248: contig of 2666 bp in length
17249 19239: contig of 1991 bp in length
19240 19339: gap of 100 bp
19340 21103: contig of 1763 bp in length
21103 21203: gap of 100 bp
21203 23372: contig of 2169 bp in length
23372 23471: gap of 100 bp
23471 25782: contig of 2311 bp in length
25783 25882: gap of 100 bp
25882 28824: contig of 2942 bp in length
28825 31619: contig of 2695 bp in length
31620 31719: gap of 100 bp
31720 34679: contig of 2960 bp in length
34680 34779: gap of 100 bp
34780 37527: contig of 2748 bp in length

```

TITLE
JOURNAL

COMMENT


```

* 37528 37627: gap of 100 bp
* 40146: contig of 2519 bp in length
* 40147 40246: gap of 100 bp
* 4247 43743: contig of 3497 bp in length
* 43744 43843: gap of 100 bp
* 47133: contig of 3290 bp in length
* 47134 47233: gap of 100 bp
* 47234 51023: contig of 3790 bp in length
* 51024 51123: gap of 100 bp
* 51124 54935: contig of 3812 bp in length
* 54936 55035: gap of 100 bp
* 55036 59553: contig of 4518 bp in length
* 59554 59653: gap of 100 bp
* 59654 64428: contig of 4775 bp in length
* 64429 64529: gap of 100 bp
* 64529 69211: contig of 4683 bp in length
* 69212 69311: gap of 100 bp
* 69312 72301: contig of 3590 bp in length
* 72302 73001: gap of 100 bp
* 73002 76724: contig of 3723 bp in length
* 76725 76824: gap of 100 bp
* 76825 81179: contig of 4355 bp in length
* 81180 81279: gap of 100 bp
* 81280 87009: contig of 5730 bp in length
* 87010 87109: gap of 100 bp
* 87110 90855: contig of 3746 bp in length
* 90856 90955: gap of 100 bp
* 90956 96520: contig of 5565 bp in length
* 96521 96620: gap of 100 bp
* 96621 102321: contig of 5701 bp in length
* 102322 102421: gap of 100 bp
* 102422 108293: contig of 5872 bp in length
* 108294 108393: gap of 100 bp
* 108394 116689: contig of 8296 bp in length
* 116690 116789: gap of 100 bp
* 116790 125264: contig of 8475 bp in length
* 125265 125364: gap of 100 bp
* 125365 136354: contig of 10990 bp in length
* 136355 136454: gap of 100 bp
* 136455 145833: contig of 9379 bp in length.
FEATURES
    source
    1..145833
        /organism="Homo sapiens"
        /mol_type="genomic DNA"
        /db_xref="taxon:9606"
        /map="20"
        /clone="RP11-712N14"
        /clone_lib="RPC1-11 Human Male BAC"
        1..1214
            /note="assembly_fragment"
            1315..2673
                /note="assembly_fragment"
                2774..4520
                    /note="assembly_fragment"
                    4621..5961
                        /note="assembly_fragment"
                        6062..7719
                            /note="assembly_fragment"
                            7820..9799
                                /note="assembly_fragment"
                                9900..11434
                                    /note="assembly_fragment"
                                    11535..14382
                                        /note="assembly_fragment"
                                        14483..17148
                                            /note="assembly_fragment"
                                            17245..19239
                                                /note="assembly_fragment"
                                                19340..21102
                                                    /note="assembly_fragment"
                                                    21203..23371
                                                        /note="assembly_fragment"

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misc_feature 23472..25782
    /note="assembly_fragment"
misc_feature 25883..28824
    /note="assembly_fragment"
misc_feature 28925..31619
    /note="assembly_fragment"
misc_feature 31720..34679
    /note="assembly_fragment"
misc_feature 34780..37527
    /note="assembly_fragment"
misc_feature 37628..40146
    /note="assembly_fragment"
misc_feature 40247..43743
    /note="assembly_fragment"
misc_feature 43844..47133
    /note="assembly_fragment"
misc_feature 47234..51023
    /note="assembly_fragment"
misc_feature 51124..54935
    /note="assembly_fragment"
    clone end:17
    vector side:right"
misc_feature 55036..59553

Query Match      100.0%; Score 22; DB 2; Length 145833;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TGAGAGAGTTCTGGGTGTCCTA 22
Db      99968 TGAGAGAGTTCTGGGTGTCCTA 99989

RESULT 9
AC005079.2
WPCOMMENT
Sequence split into 5 fragments LOCUS AC005079 Accession AC005079
Fragment Name      Begin      End
AC005079_0         1      110000
AC005079_1        100001    210000
AC005079_2        200001    310000
AC005079_3        300001    410000
AC005079_4        400001    415268
Continuation (3 of 5) of AC005079 from base 200001 (AC005079 Homo sapiens BAC clone CTA-

Query Match      88.2%; Score 19.4; DB 9; Length 110000;
Best Local Similarity 95.2%; Pred. No. 15;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TGAGAGAGTTCTGGGTGTCCT 21
Db      89559 TGAGAGAGTTCTGGGTGGCCT 89579

RESULT 10
AC005059/c
LOCUS
DEFINITION
AC005059      170128 bp      DNA      linear      HTG 13-MAR-1999
Homo sapiens clone RG074A24, *** SEQUENCING IN PROGRESS ***, 25
unordered pieces.
ACCESSION
AC005059.1 GI:3212932
VERSION
HTG; HTGS_PHASE1.
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 170128)
AUTHORS
Waterston,R.H.
TITLE
The sequence of Homo sapiens clone
JOURNAL
Unpublished
REFERENCE
2 (bases 1 to 170128)
AUTHORS
Waterston,R.H.
TITLE
Direct Submission

```

JOURNAL

Submitted (12-JUN-1998) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA

COMMENT

* NOTE: This is a 'working draft' sequence. It currently consists of 25 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

1 1662: contig of 1662 bp in length
1663 1679: gap of unknown length
1680 3248: contig of 1569 bp in length
3249 3265: gap of unknown length
3266 4902: contig of 1637 bp in length
4903 4919: gap of unknown length
4920 6551: contig of 1632 bp in length
6552 6568: gap of unknown length
6569 8090: contig of 1522 bp in length
8091 8107: gap of unknown length
8108 9832: contig of 1725 bp in length
9833 9849: gap of unknown length
9850 11531: contig of 1665 bp in length
11532 13880: contig of 2349 bp in length
13881 13897: gap of unknown length
13898 16342: contig of 2445 bp in length
16343 16359: gap of unknown length
16360 20688: contig of 4329 bp in length
20689 20705: gap of unknown length
20706 24570: contig of 3865 bp in length
24571 24587: gap of unknown length
24588 28578: contig of 3991 bp in length
28579 28595: gap of unknown length
28596 35314: contig of 6719 bp in length
35315 35331: gap of unknown length
35332 39588: gap of unknown length
39589 46401: contig of 6843 bp in length
46402 46418: gap of unknown length
46419 53312: contig of 6894 bp in length
53320 53329: gap of unknown length
53330 60281: contig of 6935 bp in length
60282 66853: contig of 6572 bp in length
66854 66870: gap of unknown length
66871 75039: contig of 8169 bp in length
75040 84782: contig of 9726 bp in length
84783 84799: gap of unknown length
84800 97374: contig of 12575 bp in length
97375 97391: gap of unknown length
97392 109799: contig of 12408 bp in length
109800 109816: gap of unknown length
109817 124892: contig of 15076 bp in length
124893 124909: gap of unknown length
124910 143882: contig of 18973 bp in length
143883 143899: gap of unknown length
143900 170128: contig of 26229 bp in length.

FEATURES

source
1. .170128
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
/clone="RG074A24"

ORIGIN

Query Match 88.2%; Score 19.4; DB 2; Length 170128;
Best Local Similarity 95.2%; Pred. No. 16;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TGAGAGATTCTGGGTGCT 21

Db 48353 TGAGAGATTCTGGGTGCT 48333

RESULT 11

AC005055/c

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

AUTHORS

TITLE

JOURNAL

AUTHORS

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JOURNAL

AUTHORS

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JOURNAL

AC005055 224064 bp DNA linear HTG 13-MAR-1999
Homo sapiens clone RG05CN15, *** SEQUENCING IN PROGRESS ***, 26
unordereed pieces.

AC005055.1 GI:3212936

HTG: HTGS PHASE1

Homo sapiens (human)

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 224064)

Waterston,R.H.

The sequence of Homo sapiens clone

Unpublished

2 (bases 1 to 224064)

Waterston,R.H.

Direct Submission

Submitted (12-JUN-1998) Genome Sequencing Center, Washington

University School of Medicine, 4444 Forest Park Parkway, St. Louis,

MO 63108, USA

COMMENT

* NOTE: This is a 'working draft' sequence. It currently
* consists of 26 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

1 1567: contig of 1567 bp in length
1568 1584: gap of unknown length
1585 3757: contig of 2173 bp in length
3758 3774: gap of unknown length
3775 5645: contig of 1871 bp in length
5646 5662: gap of unknown length
5663 8218: contig of 2556 bp in length
8219 8235: gap of unknown length
8236 10568: contig of 2333 bp in length
10569 10585: gap of unknown length
10586 12673: contig of 2088 bp in length
12674 12690: gap of unknown length
12691 14458: contig of 1768 bp in length
14459 14475: gap of unknown length
14476 17399: contig of 2924 bp in length
17400 17418: gap of unknown length
17419 20845: contig of 3429 bp in length
20846 20862: gap of unknown length
20863 24474: contig of 3612 bp in length
24475 24491: gap of unknown length
24492 30780: contig of 6289 bp in length
30781 30797: gap of unknown length
30798 36366: contig of 5569 bp in length
36367 36383: gap of unknown length
36384 41721: contig of 5338 bp in length
41722 41738: gap of unknown length
41739 49140: contig of 7402 bp in length
49141 49157: gap of unknown length
49158 54878: contig of 5721 bp in length
54879 54895: gap of unknown length
54896 60884: contig of 5969 bp in length
60885 60881: gap of unknown length
60882 72111: contig of 11230 bp in length
72112 72128: gap of unknown length
72129 81775: contig of 9647 bp in length
81776 81792: gap of unknown length
81793 92380: contig of 10588 bp in length
92381 92397: gap of unknown length
92398 106304: contig of 13907 bp in length

* 106305 106321: gap of unknown length
 * 106322 119808: contig of 13287 bp in length
 * 119809 119825: gap of unknown length
 * 119826 136119: contig of 16494 bp in length
 * 136120 136136: gap of unknown length
 * 136137 157328: contig of 21192 bp in length
 * 157329 157345: gap of unknown length
 * 157346 176995: contig of 19650 bp in length
 * 176996 177012: gap of unknown length
 * 177013 198965: contig of 21953 bp in length
 * 198966 198982: gap of unknown length
 * 198983 224064: contig of 25082 bp in length.

FEATURES

source

Location/Qualifiers

1. .224064

/organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

/clone="RG050N15"

ORIGIN

Query Match 88.2%; Score 19.4; DB 2; Length 224064;
 Best Local Similarity 95.2%; Pred. No. 16;
 Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGCTCT 21

Db 31626 TGAGAGAGTTCTGGGTGCTCT 31606

RESULT 12

AY058623

LOCUS

Drosophila melanogaster 3521 bp mRNA linear INV 17-OCT-2001

Drosophila melanogaster LD31543 full length cDNA.

ACCESSION

AY058623.1 GI:16198106

KEYWORDS

FLY CDNA.

Drosophila melanogaster (fruit fly)

Drosophila melanogaster

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;

Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;

Phyloidea; Drosophilidae; Drosophila.

1 (bases 1 to 3521)

Stapleton, M., Brokstein, P., Hong, L., Agbayani, A., Carlson, J.,

Champe, M., Chavez, C., Dorsett, V., Farfan, D., Frise, E., George, R.,

Gonzalez, M., Guarin, H., Li, P., Liao, G., Miranda, A., Mungall, C. J.,

Nunoo, J., Pacheb, J., Paragas, V., Park, S., Phouanavong, S., Wan, K.,

Yu, C., Lewis, S. E., Rubin, G. M. and Celniker, S.

Direct Submission

Submitted (08-OCT-2001) Berkeley Drosophila Genome Project,

Lawrence Berkeley National Laboratory, One Cyclotron Road,

Berkeley, CA 94720, USA

Sequence submitted by:

Berkeley Drosophila Genome Project

Lawrence Berkeley National Laboratory

Berkeley, CA 94720

This clone was sequenced as part of a high-throughput process to

sequence clones from Drosophila Gene Collection 1 (Rubin et al.,

Science 2000). The sequence has been subjected to integrity checks

for sequence accuracy, presence of a polyA tail and contiguity

within 100 kb in the genome. Thus we believe the sequence to

reflect accurately this particular cDNA clone. However, there are

artifacts associated with the generation of cDNA clones that may

have not been detected in our initial analyses such as internal

priming, priming from contaminating genomic DNA, retained introns

due to reverse transcription of unspliced precursor RNAs, and

reverse transcriptase errors that result in single base changes.

For further information about this sequence, including its location

and relationship to other sequences, please visit our web site

(http://fruitfly.berkeley.edu) or send email to

cdna@fruitfly.berkeley.edu.

FEATURES

source

1. .3521

/organism="Drosophila melanogaster"

Location/Qualifiers

1. .3521

/organism="Drosophila melanogaster"

Location/Qualifiers

1. .3521

/organism="Drosophila melanogaster"

Location/Qualifiers

/mol_type="mRNA"
 /strain="y; cn bw sp"
 /db_xref="taxon:7227"
 /map="18C8-18C8"
 1. .3521
 /notes="mRPS14"
 /gene="alignment with genomic scaffold AE003512. gene does
 not completely overlap longest ORF"
 /db_xref="FLYBASE:FBgn0044030"
 56. .3475
 /genes="mRPS14"
 /notes="Longest ORF"
 /codon_start=1
 /product="LD31543p"
 /protein_id="AAL13852.1"
 /db_xref="GI:16198107"
 /db_xref="FLYBASE:FBgn0044030"
 /translation="MSRIKKKADHASSRRTQINIEPSFLDHKAELVGLIQAKSRQ
 VRSLENEADFWKFGVGYEAMRSTQGVLPRLAEALSMPQVHRSKHLALRLDA
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 TSVRVVAGDTGCKSTQVQYLDYFGVSIACQPRRLACVSLCKRVAHELDDYGS
 RVAFQIRFRSRTKLTNLFITGELLRLQVAANLDQYDALIDGIEHNLFGDPFL
 GVTCLLRARPOLKILMSATINVELFHGCVFGEGARLYQVGRFPIKRLVLPPL
 ELKAGATSKSRNRIDPAPFQVLSLDQQYPTSERGCVLIFVSGVNEISVVEAV
 HEYATQTHWLVLPLHSGGAIDQSKVDYAPEGMRKCLVSTINIASTLTVGVRVW
 DSGKVMNMFDTQGRLEKFWKSKSDQGRKAGRTGPGVCFYLTAEQVNAFEA
 YPTPEIYRVPLDMLLQVSMGLPDVRAFPFTEAPETERIEQTILAKQHCALSVBEK
 ITPGRSLANLPVELSIGKMLLMGVFVEVEQLITLAAMLVQNPLTNRHATDQCVR
 ERESLESDDGLFTLVRLNVVQLKWRDGTQWCRRLGIEQREYEVTKLQOQFVR
 ILSCGMVVASDSOLTSARATRHGRLQKAMKRRORFQPRQKLLKQSGRVA
 EDEBEQEAQDDMDVRLPDPQLALLERSRLDRSHSVLLKLLGSGFYQL
 AIDSEFNCKGQGFHRLKPFVLCVHNSQFAGFELLKTESLTPKDPYTFPL
 PLSKRHQLICYSLETAKEPYLNCIRLPAATLLLFSAIDTNGITQACDWGLD
 DLPMPGSMELLRAIELRRMSRLYDKLDDLKSKQSPSHSDRSALMODLVLY
 MALDVAYAIRLLIPADIKRLYTHQAPASRLAKENFAVDFPMPFNEKGGINVSEH
 VVYSLAEQQTMTAMDATARBEWQCTRCDFLEDFVLEQLVHRKCKRKAQESRT
 AKTTSTESTESVASSSSSHSGGYCNCCKRELRLTIDILRHKKQCRNNK"

ORIGIN

Query Match 85.5%; Score 18.8; DB 3; Length 3521;
 Best Local Similarity 90.9%; Pred. No. 27;
 Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGCTCT 22

Db 1461 TGAAGAGAGTTCTGGGTGCTCT 1482

RESULT 13

AC015346/c

LOCUS

Drosophila melanogaster, 26121 bp DNA linear HTG 16-NOV-1999

AC015346

ACCESSION

AC015346.1 GI:6435989

VERSION

HTG; HTGS PHASE2.

KEYWORDS

SOURCE

ORGANISM

Drosophila melanogaster (fruit fly)

Drosophila melanogaster

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;

Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;

Phyloidea; Drosophilidae; Drosophila.

1 (bases 1 to 26121)

Adams, M. and Venter, J. C.

Direct Submission

Submitted (16-NOV-1999) Celera Genomics, 45 West Gude Drive,

Rockville, MD, USA

This sequence was identified as CDN:10210169 by the submitter.

For further information on this sequence e-mail to fly@celera.com.

* NOTE: This is a 'working draft' sequence.

* This sequence will be replaced

* by the finished sequence as soon as it is available and

* the accession number will be preserved.

FEATURES

source

1. .26121

Location/Qualifiers

1. .26121

/organism="Drosophila melanogaster"
/mol_type="genomic DNA"
/db_xref="taxon:7227"

ORIGIN

Query Match 85.5%; Score 18.8; DB 2; Length 26121;
Best Local Similarity 90.9%; Pred. No. 31;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 TGAGAGAGTCTGGGTGTCCTA 22
|||||
Db 5183 TGAAGAGTCTGGGTGCCAA 5162

RESULT 14

AC025824/c
LOCUS AC025824 177917 bp DNA linear PRI 19-MAR-2002
DEFINITION Homo sapiens chromosome 15 clone RP11-430M3, complete sequence.
ACCESSION AC025824
VERSION AC025824.37 GI:19549230
KEYWORDS HTG.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE

Abola, A.P., Bruno, D., Conn, L., Della Rosa, M., Faulkner, D.,
Fedeerspiel, N., Glukhov, S., Hansen, N., Herman, Z.S., Hyman, R.,
Mao, J., Komp, C., Kottler, S., Lam, B., Marathe, R., Miranda, M.,
Morehouse, A.J., Nguyen, M., Oefner, P., Palm, C.J., Ramirez, D.,
Southwick, A.M., Webb, C., Wilhelm, J., Yu, S. and Davis, R.W.
Unpublished

JOURNAL

REFERENCE

Bruno, D., Conn, L., Della Rosa, M., Faulkner, D., Fedeerspiel, N.,
Glukhov, S., Hansen, N., Hyman, R., Mao, J., Marathe, R.,
Morehouse, A.J., Oefner, P., Palm, C.J., Ramirez, D., Wilhelm, J.,
Yu, S. and Davis, R.W.
Direct Submission

TITLE

JOURNAL

Submitted (16-MAR-2000) DNA Sequencing and Technology Center,
Stanford University, 855 California Avenue, Palo Alto, CA 94304,
USA

REFERENCE

AUTHORS

Abola, A.P., Bruno, D., Conn, L., Della Rosa, M., Faulkner, D.,
Fedeerspiel, N., Glukhov, S., Hansen, N., Herman, Z.S., Hyman, R.,
Komp, C., Kottler, S., Lam, B., Mao, J., Marathe, R., Miranda, M.,
Morehouse, A.J., Nguyen, M., Oefner, P., Palm, C.J., Ramirez, D.,
Southwick, A.M., Webb, C., Wilhelm, J., Yu, S. and Davis, R.W.
Direct Submission

TITLE

JOURNAL

Submitted (19-MAR-2002) Genome Technology Center, Stanford
University, 855 California Avenue, Palo Alto, CA 94304, USA
On Mar 19, 2002 this sequence version replaced gi:15252013.

COMMENT

----- Genome Center
Center: Stanford DNA Sequencing and Technology Development
Center
Center code: SDSSTDC
Web site: <http://sequence-www.stanford.edu/group/human/>
Contact: hum-info@sequence.stanford.edu
----- Project Information
Center project name: 857
Center clone name: RP11-430M3

----- Summary

This sequence was finished as follows unless otherwise noted:
all regions were double stranded or sequenced with an alternate
chemistry or covered by high quality data (i.e., phred quality >= 30);
an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by sequence
from more than one subclone; and the assembly was confirmed by
restriction digest.

FEATURES

source

Location/Qualifiers
1..177917
/organism="Homo sapiens"
/mol_type="genomic DNA"

/db_xref="taxon:9606"
/chromosome="15"
/clone="RP11-430M3"
/clone_lib="RPC1 human BAC library 11"
128..131

misc_feature

/note="Target site of Tn10 insertion in BAC. Tn10
sequence and target site duplication, CATT, have been
removed from completed sequence."

misc_feature

23502..23850
/note="Single-stranded, single chemistry with consensus
quality below 30."

ORIGIN

Query Match 85.5%; Score 18.8; DB 9; Length 177917;
Best Local Similarity 90.9%; Pred. No. 35;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 TGAGAGAGTCTGGGTGTCCTA 22
|||||
Db 151626 TCAGAGAGTCTGGGTGCCCTA 151605

RESULT 15

AC010847/c
LOCUS AC010847 180213 bp DNA linear INV 17-MAR-2001
DEFINITION Drosophila melanogaster, chromosome X, region 18D-18D, BAC clone
BACR10M08, complete sequence.
ACCESSION AC010847
VERSION AC010847.11 GI:13374650
KEYWORDS HTG.
SOURCE Drosophila melanogaster (fruit fly)
ORGANISM Drosophila melanogaster

REFERENCE

AUTHORS

Holt, R.A., Evans, C.A., Gocayne, J.D., Ananides, P.G., Brandon, R.C.,
Rogers, Y., An, H., Baldwin, D., Banzon, J., Beeson, K.Y., Busam, D.A.,
Carlson, J.W., Center, A., Champe, M., Davenport, L.B., Dietz, S.M.,
Dodson, K., Dorsett, V., Dou, L.E., Doyle, C., Dresnek, D., Farfan, D.,
Ferreira, S., Frisoe, E., Galle, R.F., Garg, N.S., George, R.A.,
Gonzalez, M., Houck, J., Hoskins, R.A., Hostin, D., Howland, T.J.,
Ibegwam, C., Jalali, M., Kruse, D., Li, P., Mattel, B., Moshrefi, A.,
McIntosh, T.C., Moy, M., Murphy, B., Nelson, C., Nelson, K.A., Nunoo, J.,
Pacleb, J., Paragas, V., Park, S., Patel, S., Pfeiffer, B.,
Phouanavong, S., Pittman, G.S., Puri, V., Richards, S., Scheeler, F.,
Stapleton, M., Strong, R., Svirskaas, R., Tector, C., Williams, S.M.,
Zaveri, J.S., Smith, H.O., Rubin, G.M. and Venter, J.C.
Sequencing of Drosophila chromosome X, region 18D-18D
Unpublished

TITLE

JOURNAL

REFERENCE

AUTHORS

2 (bases 1 to 180213)
Celisniker, S.E., Agbayani, A., Arcaina, T.T., Baxter, E., Blazej, R.G.,
Butenikoff, C., Champe, M., Chavez, C., Chew, M., Ciesiolka, L.,
Doyle, C.M., Farfan, D.E., Galle, R., George, R.A., Harris, N.L.,
Hoskins, R.A., Houston, K.A., Hummasti, S.R., Karra, K., Kearney, L.,
Kim, E., Lee, B., Lewis, S., Li, P., Lonotani, M.A., Mazda, P.,
Moshrefi, A.R., Moshrefi, M., Nixon, K., Pacleb, J.M., Park, S.,
Pfeiffer, B., Poon, L., Sequeira, A., Sethi, H., Snir, E.,
Svirskaas, R.R., Wan, K.H., Weinburg, T., Zhang, R., Zieran, L.L. and
Rubin, G.M.
Direct Submission

TITLE

JOURNAL

COMMENT

Submitted (24-SEP-1999) Drosophila Genome Center, Lawrence Berkeley
Laboratory, MS 64-121, Berkeley, CA 94720, USA
On Mar 17, 2001 this sequence version replaced gi:6563418.
Sequence submitted by:
Berkeley Drosophila Genome Project
Lawrence Berkeley National Laboratory, MS 64-121
Berkeley, CA 94720

This sequence was assembled using end sequences from a whole genome
shotgun and from subclones of this BAC and its neighboring clones.
For further information about this sequence, including its location
and relationship to other sequences, please visit our sequence

CC NOVX, a NOVX variant (different

CC encoding NOVX (or its complement, fragment or variant). NOVX is NOV1-14,
 CC 15a, 15b, 16a, and 16b. The NOVX polypeptide, nucleic acid encoding it
 CC and antibody against it, are useful for treating or preventing (e.g. by
 CC gene therapy) a NOVX-associated disorder in humans, e.g. cardiomyopathy,
 CC atherosclerosis, a disorder related to cell signal processing and
 CC metabolic pathway modulation, diabetes or cancers. The NOVX polypeptide
 CC and nucleic acids are also useful for determining the presence of
 CC predisposition to the diseases. The NOVX nucleic acid and polypeptide are
 CC especially useful in therapeutic or prophylactic applications for
 CC disorders associated with aberrant NOVX expression or activity, e.g.
 CC cancers (e.g. adenocarcinoma, lymphoma, prostate cancer or uterus
 CC cancer), immune response, graft-versus-host disease, acquired
 CC immunodeficiency syndrome (AIDS), asthma, Crohn's disease, hypertension,
 CC congenital heart defects, multiple sclerosis, inflammation or Albricht
 CC hereditary osteodystrophy and many other diseases listed in the
 CC specification. The DNA encoding the protein is useful in gene therapy for
 CC treating the conditions. This is also useful in detection assays,
 CC chromosome mapping, tissue typing, diagnostic or prognostic assays, or
 CC for developing a powerful assay system for functional analysis of various
 CC human disorders, as well as in diagnostic applications. The present
 CC sequence is a reverse transcriptase (RT)-PCR primer used to measure
 CC tissue specific expression of mRNA encoding a NOVX protein
 XX
 SQ Sequence 22 BP; 4 A; 3 C; 8 G; 7 T; 0 U; 0 Other;
 Query Match 100.0%; Score 22; DB 6; Length 22;
 Best Local Similarity 100.0%; Pred. No. 0.79;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TGAGAGAGTTCGGGTGCTCA 22
 DB 1 TGAGAGAGTTCGGGTGCTCA 22
 RESULT 2
 ID ABK61465
 AC ABK61465;
 XX
 XX 18-JUN-2002 (first entry)
 DE Human CDNA encoding protein NOV13.
 XX
 KW Human; gene; ss; NOVX; gene therapy; cardiomyopathy; atherosclerosis;
 KW cell signal processing disorder; metabolic pathway modulation disorder;
 KW diabetes; cancer; adenocarcinoma; lymphoma; prostate cancer;
 KW uterus cancer; immune response; graft-versus-host disease;
 KW acquired immunodeficiency syndrome; AIDS; asthma; Crohn's disease;
 KW hypertension; congenital heart defects; multiple sclerosis; inflammation;
 KW Albricht hereditary osteodystrophy.
 XX
 OS Homo sapiens.
 XX
 PN WO200216599-A2.
 XX
 XX 28-FEB-2002.
 XX
 XX 27-AUG-2001; 2001WO-US026510.
 XX
 XX 25-AUG-2000; 2000US-0228191P.
 PR 08-FEB-2001; 2001US-0267300P.
 PR 20-FEB-2001; 2001US-0269961P.
 PR 20-MAR-2001; 2001US-0277337P.
 XX
 XX (CURA-) CURAGEN CORP.
 PA (CORT-) COR THERAPEUTICS INC.
 XX
 XX Burgess CE, Conley PB, Grosse WM, Hart M, Kekuda R, Shimkets RA;
 PI Spytek KA, Szekeres ES, Tomlinson JE, Topper JN, Yang R;
 XX WPI; 2002-280937/32.
 DR P-PSDB; AAU91308.

XX New polypeptides for treating or preventing a disorder associated with
 PT them, in humans, e.g. cardiomyopathy, atherosclerosis or cancers.
 XX
 XX Claim 1; Page 98; 263pp; English.
 XX
 CC The invention relates to an isolated polypeptide (NOVX) a mature form of
 CC NOVX, a NOVX variant (differing by no more than 15%), the nucleotide
 CC encoding NOVX (or its complement, fragment or variant). NOVX is NOV1-14,
 CC 15a, 15b, 16a, and 16b. The NOVX polypeptide, nucleic acid encoding it
 CC and antibody against it, are useful for treating or preventing (e.g. by
 CC gene therapy) a NOVX-associated disorder in humans, e.g. cardiomyopathy,
 CC atherosclerosis, a disorder related to cell signal processing and
 CC metabolic pathway modulation, diabetes or cancers. The NOVX polypeptide
 CC and nucleic acids are also useful for determining the presence of
 CC predisposition to the diseases. The NOVX nucleic acid and polypeptide are
 CC especially useful in therapeutic or prophylactic applications for
 CC disorders associated with aberrant NOVX expression or activity, e.g.
 CC cancers (e.g. adenocarcinoma, lymphoma, prostate cancer or uterus
 CC cancer), immune response, graft-versus-host disease, acquired
 CC immunodeficiency syndrome (AIDS), asthma, Crohn's disease, hypertension,
 CC congenital heart defects, multiple sclerosis, inflammation or Albricht
 CC hereditary osteodystrophy and many other diseases listed in the
 CC specification. The DNA encoding the protein is useful in gene therapy for
 CC treating the conditions. This is also useful in detection assays,
 CC chromosome mapping, tissue typing, diagnostic or prognostic assays, or
 CC for developing a powerful assay system for functional analysis of various
 CC human disorders, as well as in diagnostic applications. The present
 CC sequence encodes a NOVX protein
 XX
 SQ Sequence 1183 BP; 251 A; 359 C; 333 G; 240 T; 0 U; 0 Other;
 Query Match 100.0%; Score 22; DB 6; Length 1183;
 Best Local Similarity 100.0%; Pred. No. 1.2;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TGAGAGAGTTCGGGTGCTCA 22
 DB 224 TGAGAGAGTTCGGGTGCTCA 245
 RESULT 3
 AAD43980
 ID AAD43980 standard; cDNA; 2567 BP.
 XX
 AC AAD43980;
 XX
 DT 13-DEC-2002 (first entry)
 XX
 DE Human Src-Like Adapter Protein-2 (hSLAP-2) CDNA.
 XX
 KW Human; SH2/SH3-domain-containing adapter; Src-Like Adapter Protein-2;
 KW SLAP-2; immune disorder; signal transduction; autoimmune disease; cancer;
 KW neoplasm; inflammation disorder; rheumatoid arthritis; osteoarthritis;
 KW psoriasis; rhinitis; allergy; inflammatory bowel disease; gene therapy;
 KW Crohn's disease; systemic lupus erythematosus; tissue/organ rejection;
 KW multiple sclerosis; asthma; acute respiratory distress syndrome;
 KW pulmonary disorder; dermatological; neuroprotective; gene; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 CDS 415..1200
 FT FT /*tag= a
 FT FT /product= "Human SLAP-2"
 XX
 XX WO200242457-A1.
 XX
 XX 30-MAY-2002.
 XX
 XX 20-NOV-2001; 2001WO-US043367.
 XX
 XX 22-NOV-2000; 2000US-0252545P.

XX PA (BRIM) BRISTOL-MYERS SQUIBB CO.

XX PR Chang H, Yang W, Wu Y, Whitney GS, Perez-Villar JJ, Kanner SB;

XX PI P-PSDB; AAE26357.

XX DR WPI; 2002-463632/49.

XX DR Novel substantially purified human SH2/SH3-domain-containing adapter

XX PT polypeptide, termed Src-like Adapter Protein-2, useful for therapeutic

XX PT intervention in immunological and inflammatory disorders and cancer.

XX XX

XX Claim 2; Fig 1; 85pp; English.

XX The invention relates to a substantially purified human SH2/SH3-domain-

XX containing adapter polypeptide, termed Src-like Adapter Protein-2 (SLAP-

XX 2). The invention is useful for treating an immune disorder involving

XX hyperactivity of B- or T- lymphocytes in a mammal. The invention is

XX useful for screening for antagonists or inhibitors of the interaction of

XX hSLAP-2 with cellular signalling compounds, for diagnosing, treating or

XX preventing diseases or disorders associated with aberrant or uncontrolled

XX cellular signal transduction, for determining those cellular signalling

XX molecules which associate with hSLAP-2 and which provide critical signals

XX for cell activation, and as effectors in methods to affect T- cell

XX activation. The invention is useful in screening assays to identify and

XX detect candidate bioactive agents that modulate hSLAP-2 bioactivity, for

XX potential use to treat autoimmune diseases which may be caused by

XX hyperactivated B cells, as well as to treat diseases which may be caused

XX by hyperactivated T cells, in addition to other immune system related

XX conditions, diseases, or disorders. T-cell and B-cell neoplasms,

XX inflammation disorders, diseases and conditions, rheumatoid arthritis,

XX osteoarthritis, psoriasis, rhinitis, inflammatory bowel disease (Crohn's

XX and ulcerative colitis), allergies, particularly those involving

XX hyperactivity of B-cells and T- cells, or other immune cells, such as

XX mast cells or eosinophils, autoimmune diseases such as systemic lupus

XX erythematosus and multiple sclerosis, pulmonary diseases including

XX asthma, acute respiratory distress syndrome, and chronic obstructive

XX pulmonary disorder, tissue/ organ rejection and cancer. The invention is

XX useful in gene therapy. The present sequence is human SLAP-2 cDNA

XX

XX Query Match 100.0%; Score 22; DB 6; Length 2567;

XX Best Local Similarity 100.0%; Pred. No. 1.3;

XX Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCGGGTGCCTA 22

DB 241 TGAGAGAGTTCGGGTGCCTA 262

RESULT 4

ID ABQ98670 standard; DNA; 763 BP.

XX ABQ98670;

XX 04-NOV-2002 (first entry)

XX Human ORP477 coding sequence.

XX Cytostatic; Cardiant; Anti-allergic; Immunosuppressive; Vulnary;

XX Antiinflammatory; gene therapy; human; ORFX; atherogenic; platelet;

XX human umbilical vein endothelial cell; HUVEC; atherosclerotic plaque;

XX cancer; cardiovascular disease; allergy; autoimmune disease;

XX wound healing; blood coagulation disorder; inflammatory disorder; ds.

XX Homo sapiens.

XX US2002082206-A1.

XX 27-JUN-2002.

PF 30-MAY-2001; 2001US-00867550.

XX 30-MAY-2000; 2000US-0208427P.

XX (LEAC/) LEACH M D.

XX (MEHR/) MEHRABAN F.

XX (CONL/) CONLEY P B.

XX (TOPP/) TOPPER J N.

XX (LAWD/) LAW D.

XX Leach MD, Mehraban F, Conley PB, Topper JN, Law D;

XX WPI; 2002-628554/67.

XX P-PSDB; ABP64107.

XX New polypeptide designated ORFX are present in human atherogenic cells

XX and are useful to prevent and treat ORFX-associated disorders including

XX cancer, allergy, wound healing or autoimmune, cardiovascular or

XX inflammatory disease.

XX Claim 2; SEQ ID NO 953; 78pp; English.

XX The present invention relates to novel human ORFX polypeptides and their

XX coding sequences (ABP63631-ABP64681 and ABQ98194-ABQ99267). The sequences

XX were discovered in human atherogenic cells, in particular in platelets

XX and human umbilical vein endothelial cells (HUVEC) and are expressed in

XX many other tissues as well. Atherogenic cells are cells which have the

XX potential to develop atherosclerotic plaques. The ORFX polypeptides and

XX nucleic acids are useful for treating or preventing a pathological

XX condition associated with an ORFX-associated disorder, e.g. cancer,

XX cardiovascular disease, allergy, autoimmune disease, wound healing, blood

XX coagulation disorders or inflammatory disorders. Note: The sequence data

XX for this patent did not form part of the printed specification, but was

XX obtained in electronic format directly from the USPTO web site at

XX seqdata.uspto.gov/sequence.html?DocID=20020082206

XX

XX Query Match 92.7%; Score 20.4; DB 6; Length 763;

XX Best Local Similarity 95.5%; Pred. No. 6.7;

XX Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCGGGTGCCTA 22

DB 112 TGAGAGAGTTCGGGTGCCTA 133

RESULT 5

ID ABL28809 standard; DNA; 3319 BP.

XX ABL28809;

XX 26-MAR-2002 (first entry)

XX Drosophila melanogaster genomic polynucleotide SEQ ID NO 37900.

XX Drosophila; developmental biology; cell signalling; insecticide;

XX pharmaceutical; gene; ds.

XX Drosophila melanogaster.

XX WO200171042-A2.

XX 27-SEP-2001.

XX 23-MAR-2001; 2001WO-US009231.

XX 23-MAR-2000; 2000US-0191637P.

XX 11-JUL-2000; 2000US-0061415P.

XX (PEKE) PE CORP NY.

PI Venter JC, Adams M, Li PWD, Myers BW;
XX WPI; 2001-656860/75.
DR
XX New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from *Drosophila* and for elucidating cell signalling and cell-cell
PT interactions.
PT
XX
PS Claim 1; SEQ ID NO 37900; 21pp + Sequence Listing; English.
XX
CC The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from *Drosophila*. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of
CC insecticides, therapeutics and pharmaceutical drugs. The invention
CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
CC sequences (ABL01840-ABL16175) and the encoded proteins (ABB57737-
CC ABB72072). The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 3319 BP; 699 A; 947 C; 992 G; 681 T; 0 U; 0 Other;
Query Match 85.5%; Score 18.8; DB 4; Length 3319;
Best Local Similarity 90.9%; Pred. No. 45;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 TGAGAGAGTTCTGGGTGTCCTA 22
Db 1729 TGAAGAGTTCTGGGTGTCCTAA 1750
RESULT 6
ABL28808/c
ID ABL28808 standard; DNA; 5782 BP.
XX
AC ABL28808;
XX
XX 26-MAR-2002 (first entry)
XX
DE *Drosophila melanogaster* genomic polynucleotide SEQ ID NO 37897.
XX
XX *Drosophila*; developmental biology; cell signalling; insecticide;
KW pharmaceutical; gene; ds.
XX
XX *Drosophila melanogaster*.
XX
XX WO200171042-A2.
XX
XX 27-SEP-2001.
XX
XX 23-MAR-2001; 2001WO-US009231.
XX
XX 23-MAR-2000; 2000US-0191637P.
XX
XX 11-JUL-2000; 2000US-00614150.
XX
XX (PEKE) PE CORP NY.
XX
XX Venter JC, Adams M, Li PWD, Myers BW;
XX WPI; 2001-656860/75.
XX
XX New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from *Drosophila* and for elucidating cell signalling and cell-cell
PT interactions.
PT
XX
PS Claim 1; SEQ ID NO 37897; 21pp + Sequence Listing; English.
XX
CC The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from *Drosophila*. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of
CC insecticides, therapeutics and pharmaceutical drugs. The invention

CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
CC sequences (ABL01840-ABL16175) and the encoded proteins (ABB57737-
CC ABB72072). The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 5782 BP; 1326 A; 1604 C; 1561 G; 1291 T; 0 U; 0 Other;
Query Match 85.5%; Score 18.8; DB 4; Length 5782;
Best Local Similarity 90.9%; Pred. No. 48;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 TGAGAGAGTTCTGGGTGTCCTA 22
Db 2789 TGAAGAGTTCTGGGTGTCCTAA 2768
RESULT 7
ABX70675
ID ABX70675 standard; cDNA; 2442 BP.
XX
AC ABX70675;
XX
XX 04-MAR-2003 (first entry)
XX
XX Human cDNA encoding NOV26.
XX
XX Human; ss; gene; NOVX; metabolic disorder; diabetes; cardiomyopathy;
KW obesity; infectious disease; anorexia; neurodegenerative disorder;
KW Alzheimer's disease; Parkinson's disease; immune disorder;
KW haematopoietic disorder; dyslipidaemia; metabolic disturbance;
KW metabolic syndrome X; wasting disorder; cancer; gene therapy; SNP;
KW single nucleotide polymorphism.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FT variation replace(72,C)
FT /*tag= a
FT /standard_name= "Single nucleotide polymorphism"
FT variation replace(78,C)
FT /*tag= b
FT /standard_name= "Single nucleotide polymorphism"
FT variation replace(201,C)
FT /*tag= c
FT /standard_name= "Single nucleotide polymorphism"
FT variation replace(412,T)
FT /*tag= d
FT /standard_name= "Single nucleotide polymorphism"
FT variation replace(2253,G)
FT /*tag= e
FT /standard_name= "Single nucleotide polymorphism"
XX
XX WO200281518-A2.
XX
XX 17-OCT-2002.
XX
XX 21-FEB-2002; 2002WO-US005374.
XX
XX 21-FEB-2001; 2001US-0270220P.
XX 21-FEB-2001; 2001US-0270523P.
XX 23-FEB-2001; 2001US-0270797P.
XX 23-FEB-2001; 2001US-0270810P.
XX 08-MAR-2001; 2001US-0274295P.
XX 16-MAR-2001; 2001US-0276400P.
XX 16-MAR-2001; 2001US-0276677P.
XX 26-MAR-2001; 2001US-0278796P.
XX 04-APR-2001; 2001US-0281521P.
XX 25-APR-2001; 2001US-0286548P.
XX 17-MAY-2001; 2001US-0291765P.
XX 10-AUG-2001; 2001US-0311595P.
XX 13-AUG-2001; 2001US-0311980P.
XX 10-SEP-2001; 2001US-0318526P.
XX

PR 17-SEP-2001; 2001US-0322712P.
 PR 18-OCT-2001; 2001US-0330307P.
 XX (CURA-) CURAGEN CORP.
 XX Pena CBA, Shimkets RA, Li L, Shenoy SG, Kekuda R, Spytek KA;
 PI Vernet CAM, Malyankar UL, Guc X, Gusev VY, Casman SJ, Boldog FL;
 PI Furtak K, Tchernev VT, Patturajan M, Gangolli EA, Radigar M, Liu X;
 PI Baumgartner JC, Gerlach VL, Spaderna SK, Zerhusen BD;
 XX WPI; 2003-045859/04.
 DR P-PSDB; ABUS2620.
 XX
 FT New isolated NOVX polypeptide useful for treating cardiomyopathy,
 PT atherosclerosis, metabolic disorders, diabetes, obesity, infectious
 PT disease, anorexia, neurodegenerative disorders, Alzheimer's disease and
 PT cancer.
 XX
 PS Claim 9; Page 210-211; 479pp; English.
 XX
 CC The invention relates to an isolated polypeptide termed NOVX (NOV1, 2a,
 CC 2b, 3a, 3b, 4a, 4b, 5, 6, 7a-c, 8a-e, 9a-b, 10, 11, 12a-c, 13, 14, 15,
 CC 16a-d, 17a-b, 18, 19, 20a-b, 21-30) appearing as ABUS2578-ABUS2624) a
 CC variant of NOVX, a mature form of NOVX, and a variant of the mature form
 CC of NOVX. Also included are a nucleic acid molecule (NOVX NA) encoding
 CC NOVX, or a fragment or complement of NOVX NA, a vector comprising NOVX
 CC NA, a cell comprising the vector, an anti-NOVX antibody (ab), determining an
 CC the presence or amount of NOVX or NOVX NA in a sample, and identifying an
 CC agent that binds or modulates the expression or activity of NOVX, NOVX,
 CC NOVX NA or ab is useful for treating or preventing a NOVX-associated
 CC disorder in a subject, preferably human. Ab is useful for determining the
 CC presence or amount of NOVX in a sample. NOVX NA or ab is useful for identifying an
 CC agent that binds to NOVX . NOVX, NOVX NA or ab is useful for treating
 CC metabolic disorders, diabetes, cardiomyopathy, obesity, infectious
 CC disease, anorexia, neurodegenerative disorders, Alzheimer's disease,
 CC Parkinson's disease, immune disorders, haematopoietic disorders, and
 CC various dyslipidaemias, metabolic disturbances associated with obesity,
 CC the metabolic syndrome X and wasting disorders associated with chronic
 CC diseases, various cancers, endocrine, connective tissue, blood, vascular,
 CC skin, renal, bone, brain, muscle disorders, or bacterial, fungal,
 CC protozoal or viral infections. NOVX, NOVX NA or ab is useful in screening
 CC assays, detection assays, predictive medicine, and in methods of
 CC treatment. NOVX is useful as immunogen, to screen for potential
 CC ant/agonist compounds, and as bait protein in a two-hybrid or three-
 CC hybrid assay. NOVX NA is useful in gene therapy, to express NOVX, to
 CC detect NOVX mRNA or a genetic lesion in a NOVX gene, and to modulate NOVX
 CC activity. The cell is useful for producing non-human transgenic animals.
 CC Ab is useful for isolating, and purifying NOVX and to monitor protein
 CC levels in tissue as part of a clinical testing procedure. The present
 CC sequence encodes a NOVX protein
 XX
 SQ Sequence 2442 BP; 645 A; 631 C; 643 G; 523 T; 0 U; 0 Other;
 Query Match 79.1%; Score 17.4; DB 7; Length 2442;
 Best Local Similarity 94.7%; Pred. No. 2e-02;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 4 GAGAGTCTGGTGCTCTA 22
 DB 1116 GAGAGTCTGGATGCTCTA 1134
 RESULT 8
 ID AAD30568
 AC AAD30568 standard; cDNA; 2789 BP.
 AC AAD30568;
 XX
 DT 21-MAY-2002 (first entry)
 XX Human protease, PRTS-1 cDNA.
 DE Human; protease; PRTS-1; enzyme; gastritis; cirrhosis; Crohn's disease;
 KW Human; protease; PRTS-1; enzyme; gastritis; cirrhosis; Crohn's disease;

KW gastrointestinal disorder; autoimmune; inflammatory; cell proliferative;
 KW cardiovascular; developmental; epithelial; neurological; reproductive;
 KW AIDS; Acquired Immune Deficiency Syndrome; allergy; rheumatoid arthritis;
 KW anaemia; asthma; atherosclerosis; hypertension; myocardial infarction;
 KW hepatitis; cancer; psoriasis; Cushing's syndrome; hypothyroidism; eczema;
 KW epilepsy; Alzheimer's disease; Huntington's disease; Parkinson's disease;
 XX Pick's disease; infertility; vitiligo; drug screening; gene therapy; ss.
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 303..2606
 FT /tag= a
 FT /product= "Human PRTS-1 protein"
 FT sig_peptide 303..347
 FT /tag= b
 FT mat_peptide 348..2603
 FT /tag= c
 FT /product= "Mature PRTS-1 protein"
 XX
 XX WO200208396-A2.
 XX 31-JAN-2002.
 XX 17-JUL-2001; 2001WO-US022397.
 XX 21-JUL-2000; 2000US-0220063P.
 PR 28-JUL-2000; 2000US-0221680P.
 PR 04-AUG-2000; 2000US-0223544P.
 PR 11-AUG-2000; 2000US-0224717P.
 PR 16-AUG-2000; 2000US-0225988P.
 PR 23-AUG-2000; 2000US-0227568P.
 XX (INCV-) INCVTE GENOMICS INC.
 XX Deleage AM, Gandhi AR, Hafalia AJA, Lu DAM, Patterson C;
 PI Tribouley CM, Das D, Kallick DA, Nguyen DB, Lee EA, Khan FA, Yue H;
 PI Au-Young J, Griffin JA, Policky JL, Ramkumar J, Yang J;
 PI Thangavelu K, Ding L, Kearney L, Baughn MR, Borowsky ML;
 PI Sanjanwala MS, Yao MG, Burford N, Wallia NK, Lal P, Lee S, Todd S;
 PI Lo TP, Tang YT, Elliott VS, Azimzai Y, Lu Y;
 XX WPI; 2002-206082/26.
 DR P-PSDB; AAE19164.
 XX
 XX New human protease polypeptide, useful in diagnosis, prevention and
 PT treatment of gastrointestinal, cardiovascular, autoimmune/inflammatory,
 PT cell proliferative, developmental, epithelial and neurological disorders.
 XX
 PS Claim 5; Page 164-165; 182pp; English.
 XX
 CC The invention relates to an isolated human protease polypeptide (PRTS).
 CC PRTS protein and DNA are useful for diagnosing, treating and preventing
 CC gastrointestinal disorders (gastritis, cirrhosis, Crohn's disease),
 CC autoimmune/inflammatory disorders (AIDS, allergy, rheumatoid arthritis,
 CC anaemia, asthma), cardiovascular disorder (atherosclerosis, hypertension,
 CC myocardial infarction), cell proliferative disorders (hepatitis, cancer,
 CC psoriasis), developmental disorders (Cushing's syndrome, hypothyroidism),
 CC epithelial disorder (vitiligo, keloid, eczema), neurological disorders
 CC (epilepsy, Alzheimer's disease, Pick's disease, Huntington's disease,
 CC Parkinson's disease), and reproductive disorders (infertility). PRTS
 CC protein is useful in a number of drug screening techniques and to analyse
 CC the proteome of a tissue or cell type. PRTS DNA is useful for creating
 CC knockin humanised animals or transgenic animals to model human diseases,
 CC in somatic or germline gene therapy and in microarrays utilising fluids
 CC or tissues from patients to detect altered PKIN expression. The present
 CC sequence is human PRTS-1 cDNA
 XX
 SQ Sequence 2789 BP; 715 A; 745 C; 698 G; 631 T; 0 U; 0 Other;
 Query Match 79.1%; Score 17.4; DB 6; Length 2789;
 Best Local Similarity 94.7%; Pred. No. 2.1e+02;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 GAGAGTCTGGGTGCTCTA 22
 |||||
 Db 1342 GAGAGTCTGGGTGCTCTA 1360

RESULT 9

AAH57383
 ID AAH57383 standard; cDNA; 3076 BP.

XX AC AAH57383;

XX DT 10-SEP-2001 (first entry)

XX XX Human skeletal muscle cell specific cDNA sequence SEQ ID NO:223.

XX XX Human; tissue specific; diagnosis; brain; heart; skeletal muscle; lung;
 KW liver; uterus; ovary; stomach; intestine; kidney; pancreas; se;
 KW metabolic disease; developmental disease; cystostatic; immunomodulatory;
 KW neuroprotective; gene therapy; cancer; immunopathology; neuropathology.

XX OS Homo sapiens.

XX PN WO200132927-A2.

XX PD 10-MAY-2001.

XX PF 02-NOV-2000; 2000WO-US030396.

XX PR 04-NOV-1999; 99US-0163508P.

XX PA (INCY-) INCYTE GENOMICS INC.

XX PI Sornasse T, Seilhamer JU, Watson GA;

XX XX WPI; 2001-291057/30.

XX XX New cell and tissue specific polynucleotides useful for diagnosis,
 PT prognosis or monitoring of treatments for disorders where the gene is
 PT associated with a cancer, immunopathology or neuropathology.

XX FS Claim 1; Page 153-154; 327pp; English.

XX AAH57161 to AAH57576 represent cell and tissue specific polynucleotide
 CC sequences (I). (I) can have cytostatic, immunomodulatory and
 CC neuroprotective activities, and can be used in gene therapy. (I) and
 CC proteins (II) encoded by then are used in high throughput screening
 CC assays to select DNA molecules, RNA molecules, peptide nucleic acids,
 CC mimetics, peptides, proteins, agonists, antagonists, antibodies or their
 CC fragments, immunoglobulins, inhibitors, drug compounds and pharmaceutical
 CC agents. Expression of (I) in a sample indicates the differentiation of
 CC embryonic stem cells into a tissue selected from brain, heart, kidney,
 CC liver, lung, skeletal muscle or pancreatic tissues. (I) and (II) are used
 CC to produce an expression profile that defines a metabolic or
 CC developmental process, treatment, condition, disease or disorder. The
 CC gene profile can be used for diagnosis, prognosis or monitoring of
 CC treatments and for investigating a predisposition to a disorder where the
 CC gene is associated with a cancer, immunopathology or neuropathology

XX SQ Sequence 3076 BP; 800 A; 814 C; 792 G; 670 T; 0 U; 0 Other;

Query Match 79.1%; Score 17.4; DB 4; Length 3076;
 Best Local Similarity 94.7%; Pred. No. 2.1e+02;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 GAGAGTCTGGGTGCTCTA 22
 |||||
 Db 1244 GAGAGTCTGGGTGCTCTA 1262

RESULT 10

AAH57383
 ID AAH57383 standard; cDNA; 3210 BP.

XX AC

XX AAH57383;

XX DT 13-FEB-2002 (first entry)

XX XX DNA encoding novel human diagnostic protein #26737.

XX XX Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

XX OS Homo sapiens.

XX PN WO200175067-A2.

XX PD 11-OCT-2001.

XX PF 30-MAR-2001; 2001WO-US008631.

XX PR 31-MAR-2000; 2000US-00540217.

XX PR 23-AUG-2000; 2000US-00649167.

XX PA (HYSE-) HYSEQ INC.

XX PI Drmanac RT, Liu C, Tang YT;

XX XX WPI; 2001-639362/73.

XX DR P-PSDB; ABG26746.

XX XX New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity.

XX FS Claim 1; SEQ ID NO 26737; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and polypeptide (II)
 CC sequences (I) is useful as hybridisation probes, polymerase chain
 CC reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
 CC and in recombinant production of (II). The polynucleotides are also used
 CC in diagnostics as expressed sequence tags for identifying expressed
 CC genes. (I) is useful in gene therapy techniques to restore normal
 CC activity of (II) or to treat disease states involving (II). (II) is
 CC useful for generating antibodies against it, detecting or quantitating a
 CC polypeptide in tissue, as molecular weight markers and as a food
 CC supplement. (II) and its binding partners are useful in medical imaging
 CC of sites expressing (II). (I) and (II) are useful for treating disorders
 CC involving aberrant protein expression or biological activity. The
 CC polypeptide and polynucleotide sequences have application in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. AAH57161-576 represent novel human diagnostic
 CC coding sequences of the invention. Note: The sequence data for this
 CC patent did not appear in the printed specification, but was obtained in
 CC electronic format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 3210 BP; 821 A; 839 C; 861 G; 689 T; 0 U; 0 Other;

Query Match 79.1%; Score 17.4; DB 5; Length 3210;
 Best Local Similarity 94.7%; Pred. No. 2.1e+02;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 GAGAGTCTGGGTGCTCTA 22
 |||||
 Db 1784 GAGAGTCTGGGTGCTCTA 1802

RESULT 11

ACH03882
 ID ACH03882 standard; cDNA; 3327 BP.

XX AC ACH03882;

```
XX DT 26-SEP-2003 (first entry)
XX DE Human cDNA differentially expressed in lung cancer #87.
XX KW Gene therapy; emphysema; ss; gene; chronic obstructive pulmonary disease;
XX KW respiratory disorder; lung cancer; asthma; human.
XX OS Homo sapiens.
XX PN US2003065157-A1.
XX PD 03-APR-2003.
XX XX 04-APR-2002; 2002US-00116802.
XX PF 04-APR-2001; 2001US-0281593P.
XX PR (LASEK) LASEK A W.
XX PA Lasek AW;
XX PI WPI; 2003-540803/51.
XX DR New combination comprising cDNAs that are differentially expressed in
XX PT respiratory disorders, useful for diagnosing or treating respiratory
XX PT disorders e.g., lung cancer, chronic obstructive pulmonary disease,
XX PT emphysema or asthma.
XX PS Claim 1; Page; 39pp; English.
XX CC The invention relates to a combination comprising cDNAs or their
XX CC complements that are differentially expressed in respiratory disorder.
XX CC The combination is useful for preparing a composition for diagnosing or
XX CC treating respiratory disorders e.g. lung cancer, chronic obstructive
XX CC pulmonary disease, emphysema or asthma. The present sequence represents
XX CC human cDNA differentially expressed during lung cancer
XX SQ Sequence 3327 BP; 863 A; 880 C; 834 G; 750 T; 0 U; 0 Other;
Query Match 79.1%; Score 17.4; DB 8; Length 3327;
Best Local Similarity 94.7%; Pred. No. 2.1e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 4 GAGAGTCTGGGTGCTCTA 22
Db 1486 GAGAGTCTGGGTGCTCTA 1504
RESULT 12
AAT32455
ID AAT32455 standard; cDNA; 5149 BP.
AC AAT32455;
XX XX 02-DEC-1996 (first entry)
XX DE Calpain large subunit 1 coding sequence.
XX KW Calpain; subunit; calcium; protease; mutation; treatment; detection;
XX KW identification; diagnosis; limb girdle muscular dystrophy; LGMD2;
XX KW calcium activated neutral protease; CANP; ss.
XX OS Homo sapiens.
XX PH Key Location/Qualifiers
XX FT misc_feature 109..359
XX FT /tag= a
XX FT /label= Alu sequence.
XX FT CAAT_signal 712..716
XX FT /tag= b
XX FT /note= "Putative CAAT signal."
XX FT CAAT_signal 759..764
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FT CAAT_signal C
FT /note= "Putative CAAT signal."
FT 979..983
FT /tag= d
FT TATA_signal
FT /note= "Putative CAAT signal."
FT 1270..1275
FT /tag= e
FT /note= "Putative TATA signal."
FT CDS
FT 1303..3768
FT /tag= f
FT /product= "Calpain large subunit 1."
FT 4288..4293
FT /tag= g
XX PN WO9616175-A2.
XX XX 30-MAY-1996.
XX PF 21-NOV-1995; 95WO-EP004575.
XX PR 22-NOV-1994; 94EP-00402668.
XX PA (ASFR-) ASSOC FR CONTRE MYOPATHIES.
XX PI Beckmann J, Richard I;
XX DR WPI; 1996-268611/27.
XX DR P-PSDB; AAR99579.
XX XX Human novel Calpain large subunit 1 gene encoding a calcium dependent
XX PT protease - used to develop prods. for the diagnosis and treatment of limb
XX PT -girdle muscular dystrophy 2 disease.
XX PS Claim 1; Fig 2; 66pp; English.
XX CC The calpain large subunit 1 gene located on chromosome 15 codes for a
XX CC calcium activated neutral protease (CANP3) belonging to the calpain
XX CC family. Mutations in the gene induce limb-girdle muscular dystrophy
XX CC (LGMD) 2 disease. The gene, and fragments of it, can be used in the
XX CC prevention, treatment, diagnosis and detection of a predisposition to
XX CC LGMD2 disease
XX XX Sequence 5149 BP; 1343 A; 1312 C; 1179 G; 1314 T; 0 U; 1 Other;
Query Match 79.1%; Score 17.4; DB 2; Length 5149;
Best Local Similarity 94.7%; Pred. No. 2.2e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 4 GAGAGTCTGGGTGCTCTA 22
Db 2486 GAGAGTCTGGGTGCTCTA 2504
RESULT 13
AAK67913/c
ID AAK67913 standard; DNA; 355 BP.
XX AC AAK67913;
XX XX 06-NOV-2001 (first entry)
XX DT Human immune/haematopoietic antigen genomic sequence SEQ ID NO:22725.
XX DE Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX KW cytosolic; gene therapy; vaccine; metastasis; ds.
XX OS Homo sapiens.
XX XX WO200157182-A2.
XX PN 09-AUG-2001.
XX PD 17-JAN-2001; 2001WO-US001354.
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XX Disclosure; SEQ ID NO 22725; 3071pp + Sequence Listing; English.
 PS
 CC AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
 CC amino acid sequences given in AAK64702 to AAK64702. (I) have cytosolic
 CC activity, and can be used in gene therapy and vaccine production. (I)
 CC proteins and polynucleotides may be used in the prevention, diagnosis and
 CC treatment of diseases associated with inappropriate (I) expression. For
 CC example, they may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patient's own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting the
 CC nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/haematopoietic-related diseases, especially
 CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
 CC to AAK64794 represent human immune/haematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAK62169
 CC represent sequences used in the exemplification of the present invention
 XX
 SQ Sequence 355 BP; 121 A; 77 C; 72 G; 85 T; 0 U; 0 Other;
 Query Match 78.2%; Score 17.2; DB 4; Length 355;
 Best Local Similarity 86.4%; Pred. No. 2.1e+02;
 Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 1 TGAGAGAGTCTCGGTCTCTA 22
 Db 146 TGAGTGTGTTCTGGCTCTCTA 125
 RESULT 14
 ID AAK67912/c
 AC AAK67912;
 XX
 DT 06-NOV-2001 (first entry)
 XX
 DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:22724.
 XX
 KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
 KW cytosolic; gene therapy; vaccine; metastasis; ds.
 XX
 OS Homo sapiens.
 XX
 PN WO200157182-A2.
 XX
 PD 09-AUG-2001.
 XX
 PF 17-JAN-2001; 2001WO-US001354.
 XX
 PR 31-JAN-2000; 2000US-0179065P.
 PR 04-FEB-2000; 2000US-0180628P.
 PR 24-FEB-2000; 2000US-0184664P.
 PR 02-MAR-2000; 2000US-0186350P.
 PR 16-MAR-2000; 2000US-0189874P.
 PR 17-MAR-2000; 2000US-0190076P.
 PR 18-APR-2000; 2000US-0198123P.
 PR 19-MAY-2000; 2000US-0205515P.
 PR 07-JUN-2000; 2000US-0209467P.
 PR 28-JUN-2000; 2000US-0214886P.
 PR 30-JUN-2000; 2000US-0215135P.
 PR 07-JUL-2000; 2000US-0216647P.
 PR 07-JUL-2000; 2000US-0216880P.
 PR 11-JUL-2000; 2000US-0217487P.
 PR 11-JUL-2000; 2000US-0217496P.
 PR 14-JUL-2000; 2000US-0218290P.
 PR 26-JUL-2000; 2000US-0220963P.
 PR 26-JUL-2000; 2000US-0220964P.
 PR 14-AUG-2000; 2000US-0224518P.
 PR 14-AUG-2000; 2000US-0224519P.
 PR 14-AUG-2000; 2000US-0225213P.
 PR 14-AUG-2000; 2000US-0225214P.
 PR 14-AUG-2000; 2000US-0225266P.
 PR 14-AUG-2000; 2000US-0225267P.
 PR 14-AUG-2000; 2000US-0225268P.
 PR 14-AUG-2000; 2000US-0225270P.
 PR 14-AUG-2000; 2000US-0225447P.
 PR 14-AUG-2000; 2000US-0225757P.
 PR 14-AUG-2000; 2000US-0225758P.
 PR 14-AUG-2000; 2000US-0225759P.
 PR 18-AUG-2000; 2000US-0226279P.
 PR 22-AUG-2000; 2000US-0226681P.
 PR 22-AUG-2000; 2000US-0226682P.
 PR 22-AUG-2000; 2000US-0227182P.
 PR 23-AUG-2000; 2000US-0227009P.
 PR 30-AUG-2000; 2000US-0228924P.
 PR 01-SEP-2000; 2000US-0229287P.
 PR 01-SEP-2000; 2000US-0229343P.
 PR 01-SEP-2000; 2000US-0229344P.
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 PR 05-SEP-2000; 2000US-0229509P.
 PR 05-SEP-2000; 2000US-0229513P.
 PR 06-SEP-2000; 2000US-0230437P.
 PR 06-SEP-2000; 2000US-0230438P.
 PR 08-SEP-2000; 2000US-0231242P.
 PR 08-SEP-2000; 2000US-0231243P.
 PR 08-SEP-2000; 2000US-0231244P.
 PR 08-SEP-2000; 2000US-0231413P.
 PR 08-SEP-2000; 2000US-0231414P.
 PR 08-SEP-2000; 2000US-0232080P.
 PR 08-SEP-2000; 2000US-0232081P.
 PR 12-SEP-2000; 2000US-0231968P.
 PR 14-SEP-2000; 2000US-0232397P.
 PR 14-SEP-2000; 2000US-0232398P.
 PR 14-SEP-2000; 2000US-0232399P.
 PR 14-SEP-2000; 2000US-0232400P.
 PR 14-SEP-2000; 2000US-0232401P.
 PR 14-SEP-2000; 2000US-0233063P.
 PR 14-SEP-2000; 2000US-0233064P.
 PR 14-SEP-2000; 2000US-0233065P.
 PR 21-SEP-2000; 2000US-0234223P.
 PR 21-SEP-2000; 2000US-0234224P.
 PR 25-SEP-2000; 2000US-0234997P.
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 PR 26-SEP-2000; 2000US-0235484P.
 PR 27-SEP-2000; 2000US-0235834P.
 PR 27-SEP-2000; 2000US-0235836P.
 PR 29-SEP-2000; 2000US-0236327P.
 PR 29-SEP-2000; 2000US-0236328P.
 PR 29-SEP-2000; 2000US-0236359P.
 PR 29-SEP-2000; 2000US-0236360P.
 PR 02-OCT-2000; 2000US-0236802P.
 PR 02-OCT-2000; 2000US-0237037P.
 PR 02-OCT-2000; 2000US-0237038P.
 PR 02-OCT-2000; 2000US-0237039P.
 PR 13-OCT-2000; 2000US-0237040P.
 PR 13-OCT-2000; 2000US-0239935P.
 PR 13-OCT-2000; 2000US-0239937P.
 PR 20-OCT-2000; 2000US-0241221P.
 PR 20-OCT-2000; 2000US-0241222P.
 PR 20-OCT-2000; 2000US-0241785P.
 PR 20-OCT-2000; 2000US-0241786P.
 PR 20-OCT-2000; 2000US-0241787P.
 PR 20-OCT-2000; 2000US-0241808P.
 PR 20-OCT-2000; 2000US-0241809P.
 PR 20-OCT-2000; 2000US-0241826P.
 PR 01-NOV-2000; 2000US-0244617P.
 PR 08-NOV-2000; 2000US-0246474P.
 PR 08-NOV-2000; 2000US-0246475P.
 PR 08-NOV-2000; 2000US-0246476P.
 PR 08-NOV-2000; 2000US-0246477P.
 PR 08-NOV-2000; 2000US-0246478P.

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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 21:21:54 ; Search time 145.664 Seconds
(without alignments)
4510.152 Million cell updates/sec

Title: US-09-939-853A-142

Perfect score: 22

Sequence: 1 tggagagattctgggtgccta 22

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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2: em_esthum:*

3: em_estin:*

4: em_estmu:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

8: em_hic:*

9: gb_est1:*

10: gb_est2:*

11: gb_hic:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estcom:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_pin:*

20: em_gss_vrt:*

21: em_gss_fun:*

22: em_gss_mam:*

23: em_gss_mus:*

24: em_gss_pro:*

25: em_gss_rtd:*

26: em_gss_phg:*

27: em_gss_vrl:*

28: gb_gss1:*

29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	22	100.0	616	13	BX383606
2	22	100.0	778	12	BG178487
3	22	100.0	878	12	BQ053486
4	22	100.0	986	12	BQ054265

5	22	100.0	1020	12	BQ054281
6	22	100.0	1201	9	AL541041
7	18.8	85.5	573	28	CC322697
8	18.4	83.6	598	28	AZ827349
9	18.4	83.6	651	9	AI727541
10	18.4	83.6	2919	11	AK035058
11	17.8	80.9	283	28	AZ940479
12	17.8	80.9	296	29	CC513479
13	17.8	80.9	464	28	BH834762
14	17.8	80.9	498	14	CF606764
15	17.8	80.9	601	28	BH826297
16	17.8	80.9	652	12	BQ011310
17	17.8	80.9	690	9	AU168324
18	17.8	80.9	699	9	AV846834
19	17.8	80.9	780	28	AZ727518
20	17.8	80.9	910	14	CA965326
21	17.8	80.9	1062	28	CC305491
22	17.8	80.9	1066	28	CC250043
23	17.4	79.1	230	13	BX500783
24	17.4	79.1	295	12	BI430374
25	17.4	79.1	438	9	AA128423
26	17.4	79.1	537	9	AV598294
27	17.4	79.1	558	28	AZ749071
28	17.4	79.1	563	29	CE551267
29	17.4	79.1	583	13	BU065505
30	17.4	79.1	588	13	BU064867
31	17.4	79.1	925	14	CF551819
32	17.4	79.1	1062	29	CNS0602K
33	17.4	79.1	1160	29	CNS06718
34	17.4	79.1	1878	29	AV419877
35	17.2	78.2	315	9	AA640882
36	17.2	78.2	363	10	BB730751
37	17.2	78.2	383	13	BY675867
38	17.2	78.2	389	29	CG578968
39	17.2	78.2	407	9	AV797883
40	17.2	78.2	408	10	BE654580
41	17.2	78.2	430	10	BE848016
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ALIGNMENTS

RESULT 1
BX383606
LOCUS
DEFINITION BX383606 Homo sapiens T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED
Homo sapiens cDNA clone CS0DJ013YK10 5-PRIME, mRNA sequence.
ACCESSION BX383606
VERSION BX383606.1 GI:30457152
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 616)
Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
Full-length cDNA libraries and normalization
Unpublished (2001)
JOURNAL Contact: Genoscope
COMMENT Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 9825.r For
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CS0DJ013BF05QP1&cluster=9825.r. Contact :
Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ invitrogen Corporation 1600

Faraday Avenue Genoscope sequence ID : CS0DJ013BF05QPi.

FEATURES

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/cell_line="JURKAT"
/clone_lib="Homo sapiens T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo (3T) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN

Query Match 100.0%; Score 22; DB 13; Length 616;
Best Local Similarity 100.0%; Pred. No. 29;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCGGGTGCTCTA 22
Db 273 TGAGAGAGTTCGGGTGCTCTA 294

RESULT 2

BGI78487
LOCUS
DEFINITION 778 bp mRNA linear EST 06-FEB-2001
603228305F1 NIH_MGC_91 Homo sapiens cDNA clone IMAGE:4429896 5';
mRNA sequence.

ACCESSION BGI78487
VERSION BGI78487.1 GI:12685190
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 778)
NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)

COMMENT

Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: DCTD/DPF
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov

Plate: LLAM0182 row: i column: 01
High quality sequence stop: 657.

FEATURES

source

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/db_xref="taxon:9606"
/clone="IMAGE:4429896"
/tissue_type="adenocarcinoma, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH MGC 91"
/note="Organ: prostate; Vector: pCMV-SPORT6; Site 1: NotI; Site 2: SalI; Cloned unidirectionally; oligo-dT primed. Average insert size 1.4 kb. Library enriched for full-length clones and constructed by Life Technologies. Note: this is a NIH_MGC Library."

ORIGIN

Query Match 100.0%; Score 22; DB 12; Length 778;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCGGGTGCTCTA 22
Db 188 TGAGAGAGTTCGGGTGCTCTA 209

RESULT 3

BQ053486
LOCUS
DEFINITION 878 bp mRNA linear EST 29-MAR-2002
AGENCOURT_6822017 NIH_MGC_106 Homo sapiens cDNA clone IMAGE:5935253 5'; mRNA sequence.

ACCESSION BQ053486
VERSION BQ053486.1 GI:19812826
KEYWORDS EST.

SOURCE

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 878)

AUTHORS

TITLE

JOURNAL

COMMENT

Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov

Tissue Procurement: Dr. Daniel McVicar, DBS/NCI

cDNA Library Preparation: Rubin Laboratory

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: LLCM2122 row: 1 column: 06

High quality sequence stop: 394.

FEATURES

source

1. .878
/organization="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5935253"
/tissue_type="natural killer cells, cell line"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH MGC 106"
/note="Organ: blood; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 100.0%; Score 22; DB 12; Length 878;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCGGGTGCTCTA 22
Db 99 TGAGAGAGTTCGGGTGCTCTA 120

RESULT 4

BQ054265
LOCUS
DEFINITION 986 bp mRNA linear EST 29-MAR-2002
AGENCOURT_6830248 NIH_MGC_106 Homo sapiens cDNA clone IMAGE:5935339 5'; mRNA sequence.

ACCESSION BQ054265
VERSION BQ054265.1 GI:19813605
KEYWORDS EST.

SOURCE

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 986)

AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapsb@mail.nih.gov
 Tissue Procurement: Dr. Daniel McVicar, DBS/NCI
 cDNA Library Preparation: Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: L1CM2125 row: i column: 12
 High quality sequence stop: 515.

FEATURES

source
 1. .986
 Location/Qualifiers

/organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5936339"
 /tissue_type="natural killer cells, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_106"
 /note="Organ: Blood; Vector: pOTB7; Site: 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 100.0%; Score 22; DB 12; Length 986;
 Best Local Similarity 100.0%; Pred. No. 34;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGTCCTA 22
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 DB 105 TGAGAGAGTTCTGGGTGTCCTA 126

RESULT 5

BQ054281
 LOCUS BQ054281 1020 bp mRNA linear EST 29-MAR-2002
 DEFINITION AGENCOURT_6830234 NIH_MGC_106 Homo sapiens cDNA clone IMAGE:5936362
 5', mRNA sequence.

ACCESSION BQ054281
 VERSION BQ054281.1 GI:19813621

KEYWORDS

EST

SOURCE

Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

NIH-MGC <http://mgc.nci.nih.gov/>

1 (bases 1 to 1020)

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapsb@mail.nih.gov

Tissue Procurement: Dr. Daniel McVicar, DBS/NCI

cDNA Library Preparation: Rubin Laboratory

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

<http://image.llnl.gov>

Plate: L1CM2125 row: j column: 11

High quality sequence stop: 556.

FEATURES

source
 1. .1020
 Location/Qualifiers

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"
 /clone="IMAGE:5936362"
 /tissue_type="natural killer cells, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_106"
 /note="Organ: blood; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 100.0%; Score 22; DB 12; Length 1020;
 Best Local Similarity 100.0%; Pred. No. 34;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGTCCTA 22
 |||||
 DB 38 TGAGAGAGTTCTGGGTGTCCTA 59

RESULT 6

AL541041

LOCUS AL541041

DEFINITION AL541041 Homo sapiens PLACENTA Homo sapiens cDNA clone CS0DE005YK23

5-PRIME, mRNA sequence.

ACCESSION AL541041

VERSION AL541041.2 GI:30544829

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 1201)

Li, W.B., Gruber, C., Jessee, J. and Polayes, D.

Full-length cDNA libraries and normalization

Unpublished (2001)

On Feb 15, 2001 this sequence version replaced gi:12871733.

Contact: Genoscope

Genoscope - Centre National de Sequencage

BP 191 91006 EVRY cedex - France

Email: seqre@genoscope.cns.fr, Web : www.genoscope.cns.fr

Library was constructed by Life Technologies, a division of

Invitrogen. This sequence belongs to sequence cluster 9825.r For

more information about this cluster, see

[http://www.genoscope.cns.fr/](http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CS0DE005AF12QPI&cluster=9825.r)

Feng liang Email: fliang@lifetech.com URL : Corporation 1600

<http://fulllength.invitrogen.com/> Invitrogen Corporation 1600

Faraday Avenue Genoscope sequence ID : CS0DE005AF12QPI.

Location/Qualifiers

1. .1201

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="CS0DE005YK23"

/tissue_type="PLACENTA"

/clone_lib="Homo sapiens PLACENTA"

/note="Vector: pCMVSPORT 6; 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoRV sites of the pCMVSPORT 6 vector. Library was not normalized."

Library was not normalized."

Query Match 100.0%; Score 22; DB 9; Length 1201;

Best Local Similarity 100.0%; Pred. No. 36;

Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

1 TGAGAGAGTTCTGGGTGTCCTA 22

```

Db      285 TGAGAGAGTTCTGGGTGTCCTA 306
|||||
RESULT 7
CC322697
LOCUS   573 bp      DNA      linear      GSS 14-MAY-2003
DEFINITION  TAM32-33G24_Sp6.1 TAM32 Gallus gallus genomic clone TAM32-33G24,
genomic survey sequence.
ACCESSION  CC322697
VERSION    CC322697
KEYWORDS   GSS.
SOURCE     Gallus gallus (chicken)
ORGANISM   Gallus gallus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
Phasianinae; Gallus.
1 (bases 1 to 573)
Kremitzki,C., Higginbotham,J., Wylie,K., Carter,J., McPherson,J.,
Warren,W., Graves,T., Mardis,E. and Wilson,R.
Gallus gallus BAC End Reads
Unpublished (2003)
Contact: Richard K. Wilson
Genome Sequencing Center
Washington University School of Medicine
Email: submissions@watson.wustl.edu
Insert Length: 152000 Std Error: 0.00
Seq primer: Sp6 ATTAGGTGACATATAG
Class: BAC ends
High quality sequence start: 3
High quality sequence stop: 478.
Location/Qualifiers
1..573
/organism="Gallus gallus"
/mol_type="genomic DNA"
/strain="Red Jungle Fowl"
/db_xref="taxon:9031"
/clone="TAM32-33G24"
/sex="female"
/cell_line="UCD001, inbred 256"
/clone_lib="TAM32"
/notes="Vector: pSCBAC1, Site 1: EcoRI; Site 2: EcoRI;
TAM32 Female Chicken library_ for library and clone
Ordering information: http://www.hbz.tamu.edu"

ORIGIN
Query Match      85.5%; Score 18.8; DB 28; Length 573;
Best Local Similarity 90.9%; Pred. No. 7.5e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGTCCTA 22
|||||
DB 361 TGAGAGAGTTCTGGGTGTCCTA 382
|||||

RESULT 8
AZ827349
LOCUS   598 bp      DNA      linear      GSS 20-FEB-2001
DEFINITION  ZM0103B18R Mouse 10kb plasmid UUC1M library Mus musculus genomic
clone UUGC2M0103B18 R, genomic survey sequence.
ACCESSION  AZ827349
VERSION    AZ827349
KEYWORDS   GSS.
SOURCE     Mus musculus (house mouse)
ORGANISM   Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 598)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmood,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb

TITLE

```

```

plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah
Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: dunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0103 row: B column: 18
Seq primer: CACACAGGAAACAGCATGACC
Class: plasmid ends
High quality sequence stop: 598.
Location/Qualifiers
1..598
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0103B18"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUC1M library"
/notes="Vector: PWD42HV; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN
Query Match      83.6%; Score 18.4; DB 28; Length 598;
Best Local Similarity 95.0%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGTC 20
|||||
DB 279 TGAGAGAGTTCTGGGTGTC 298
|||||

RESULT 9
AI727541
LOCUS   651 bp      mRNA      linear      EST 11-JUN-1999
DEFINITION  BNLGH1847 Six-day Corton fiber Gossypium hirsutum cDNA 5' similar
to (AF039373) Polyprotein (Arabidopsis thaliana), mRNA sequence.
ACCESSION  AI727541
VERSION    AI727541
KEYWORDS   EST.
SOURCE     Gossypium hirsutum (upland cotton)
ORGANISM   Gossypium hirsutum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosids; eurosids II; Malvales; Malvaceae; Malvoideae; Gossypium.
1 (bases 1 to 651)
Blewitt,M., Matz,B.C., Davy,D.P. and Burr,B.
ESTs from developing cotton fiber
Unpublished (1999)
Contact: Ben Burr

```

Biology Department
Brookhaven National Laboratory
Upton, NY 11973, USA
Tel: 516-344-3396
Fax: 516-344-3407
Email: burr@bnl.bnl.gov
Seq primer: T3 Primer.

Location/Qualifiers

1. .651
/organism="Gossypium hirsutum"
/mol_type="mRNA"
/cultivar="Acala Maxxa"
/db_xref="taxon:3635"
/tissue_type="Immature fiber"
/dev_stage="Six days post anthesis"
/lab_host="XLI-Blue"
/clone_lib="Six-day Cotton fiber"
/note="Vector: pBluescript II KS+"

ORIGIN

Query Match 83.6%; Score 18.4; DB 9; Length 651;
Best Local Similarity 95.0%; Pred. No. 1.2e+03;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TGAGAGAGTCTCGGTCTCC 20

Db 91 TGAGAGAGTCTCGGTCTCC 110

RESULT 10

AK035058

LOCUS

DEFINITION

AK035058 2919 bp mRNA linear HTC 18-SEP-2003
Mus musculus 12 days embryo embryonic body between diaphragm region
and neck cDNA, RIKEN full-length enriched library, clone:9430080I20
product:hypothetical protein, full insert sequence.

ACCESSION

VERSION AK035058.1 GI:26084370

KEYWORDS HTC; CAP trapper.

SOURCE Mus musculus (house mouse)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE

1

Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning

Meth. Enzymol. 303, 19-44 (1999)

99279253

MEDLINE

10349636

REFERENCE

2

Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.

Normalization and subtraction of cap-trapper-selected cDNAs to

prepare full-length cDNA libraries for rapid discovery of new genes

Genome Res. 10 (10), 1617-1630 (2000)

20499374

MEDLINE

11042159

REFERENCE

3

Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P.,
Konno, H., Akiyama, J., Nishi, K., Kitsumai, T., Tashiro, H., Itoh, M.,
Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A.,
Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K.,
Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watahiki, M.,
Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J.,
Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.

RIKEN integrated sequence analysis (RISA) system--384-format

sequencing pipeline with 384 multicapillary sequencer

Genome Res. 10 (11), 1757-1771 (2000)

20530913

MEDLINE

11076861

REFERENCE

4

The RIKEN Genome Exploration Research Group Phase II Team and the

FANTOM Consortium.

Functional annotation of a full-length mouse cDNA collection

JOURNAL

REFERENCE

AUTHORS

TITLE

JOURNAL

REFERENCE

AUTHORS

Location/Qualifiers

1. .651

/organism="Gossypium hirsutum"

/mol_type="mRNA"

/cultivar="Acala Maxxa"

/db_xref="taxon:3635"

/tissue_type="Immature fiber"

/dev_stage="Six days post anthesis"

/lab_host="XLI-Blue"

/clone_lib="Six-day Cotton fiber"

/note="Vector: pBluescript II KS+"

TITLE

JOURNAL

REFERENCE

AUTHORS

Location/Qualifiers

1. .651

/organism="Gossypium hirsutum"

/mol_type="mRNA"

/cultivar="Acala Maxxa"

/db_xref="taxon:3635"

/tissue_type="Immature fiber"

/dev_stage="Six days post anthesis"

/lab_host="XLI-Blue"

/clone_lib="Six-day Cotton fiber"

/note="Vector: pBluescript II KS+"

TITLE

JOURNAL

REFERENCE

AUTHORS

Location/Qualifiers

1. .2919

/organism="Mus musculus"

/mol_type="mRNA"

/strain="C57BL/6J"

/db_xref="PANTOM,DB:9430080I20"

/db_xref="MGI:2399272"

/db_xref="taxon:10090"

/clone="9430080I20"

/tissue_type="embryonic body between diaphragm region and neck"

/clone_lib="RIKEN full-length enriched mouse cDNA library"

/dev_stage="12 days embryo"

1. .2919

/note="hypothetical protein (evidence: ProCreat)"

misc_feature

Query Match 83.6%; Score 18.4; DB 11; Length 2919;

Best Local Similarity 95.0%; Pred. No. 1.9e+03;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

ORIGIN

QY 2 GAGAGAGTTCGGGTGCTCT 21

Db 589 GAGAGAGTTCGGGTGCTCT 608

RESULT 11

AZ940479

LOCUS

DEFINITION

Accession

Version

Keywords

Source

ORGANISM

Mus musculus (house mouse)

Mus musculus

Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;

Nature 409, 685-690 (2001)

5

The PANTOM Consortium and the RIKEN Genome Exploration Research
Group Phase I & II Team.

Analysis of the mouse transcriptome based on functional annotation

of 60,770 full-length cDNAs

Nature 420, 563-573 (2002)

6 (bases 1 to 2919)

Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P.,

Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,

Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T.,

Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T.,

Kato, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,

Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M.,

Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ono, M., Ohnato, N.,

Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N.,

Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T.,

Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S.,

Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A.,

Muramatsu, M. and Hayashizaki, Y.

Direct Submission

Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of

Physical and Chemical Research (RIKEN), Laboratory for Genome

Exploration Research Group, RIKEN Genomic Sciences Center (GSC),

RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,

Kanagawa 230-0045, Japan (E-mail: genome-res@gscc.riken.go.jp,

URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222,

Fax: 81-45-503-9216)

cDNA library was prepared and sequenced in Mouse Genome

Encyclopedia Project of Genome Exploration Research Group in Riken

Genomic Sciences Center and Genome Science Laboratory in RIKEN.

Division of Experimental Animal Research in Riken contributed to

prepare mouse tissues.

Please visit our web site for further details.

URL: http://genome.gsc.riken.go.jp/

URL: http://fantom.gsc.riken.go.jp/

Location/Qualifiers

1. .2919

/organism="Mus musculus"

/mol_type="mRNA"

/strain="C57BL/6J"

/db_xref="PANTOM,DB:9430080I20"

/db_xref="MGI:2399272"

/db_xref="taxon:10090"

/clone="9430080I20"

/tissue_type="embryonic body between diaphragm region and neck"

/clone_lib="RIKEN full-length enriched mouse cDNA library"

/dev_stage="12 days embryo"

1. .2919

/note="hypothetical protein (evidence: ProCreat)"

misc_feature

Query Match 83.6%; Score 18.4; DB 11; Length 2919;

Best Local Similarity 95.0%; Pred. No. 1.9e+03;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

ORIGIN

QY 2 GAGAGAGTTCGGGTGCTCT 21

Db 589 GAGAGAGTTCGGGTGCTCT 608

RESULT 11

AZ940479

LOCUS

DEFINITION

Accession

Version

Keywords

Source

ORGANISM

Mus musculus (house mouse)

Mus musculus

Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;

283 bp DNA linear GSS 26-APR-2001

2M0199D23R Mouse 10kb plasmid UGCG2M library Mus musculus genomic

clone UGCG2M0199D23 R, genomic survey sequence.

AZ940479

GSS.

AZ940479.1 GI:13802090

REFERENCE
AUTHORS
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 283)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
 Niederhausen, A. and Wright, D. Weiss, R.
TITLE
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
JOURNAL
 Unpublished (2000)
COMMENT
 Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLG, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: dduwn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0199 row: D column: 23
 Seq primer: CACACAGGAACAGCTATGACC
 Class: plasmid ends
 High quality sequence stop: 283.
FEATURES
 source
 1..283
 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M019P23"
 /sex="female"
 /lab_host="E. coli strain XL10-Gold, Tl-resistant, F-"
 /clone_lib="Mouse 10kb plasmid UUGC2M library"
 /notes="Vector: PWD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (female) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PWD42 (g14732114|9b|AP129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

ORIGIN
 Query Match 80.9%; Score 17.8; DB 28; Length 283;
 Best Local Similarity 90.5%; Pred. No. 1.7e+03;
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 TGAGAGAGTTCTGGGTCTCT 21
 Db 50 TGGAGAGAGTCTGGGTCTCT 70

RESULT 12
CC513479
LOCUS
 CC513479 295 bp DNA linear GSS 17-JUN-2003
DEFINITION
 CH240_358G5.T7 CHORI-240 Bos taurus genomic clone CH240_358G5,
 genomic survey sequence.
ACCESSION
 CC513479
VERSION
 CC513479.1 GI:31831767
KEYWORDS
 GSS.
SOURCE
 Bos taurus (cow)
ORGANISM
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE
AUTHORS
 Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidea;
 Bovidae; Bovinae; Bos.
 1 (bases 1 to 296)
 Holt, R., Stott, J., Yang, G., Barber, S., Smalls, D., Prabhu, A.-L.,
 Tsai, M., Cloutier, A., Lee, D., Ghrn, N., Olson, T., Mayo, M.,
 Butterfield, Y., Kirkpatrick, R., Liu, J., Guin, R., Chan, A., Chiu, R.,
 Mathewson, C., Wye, N., Masson, A., Brown-John, M., Jones, S.,
 Schein, J., Warra, M., de Jong, P., McWilliam, S., Barris, W.,
 Dairymple, B.P. and Tellam, R.
TITLE
 Bovine BAC End Sequences from Library CHORI-240, PLATES 294 to 398
JOURNAL
 Unpublished (2003)
COMMENT
 Other GSSs: CH240_358G5.TARBAC13P2
 Contact: Rob Holt
 The British Columbia Cancer Agency Genome Science Centre
 600 W. 10th Ave, Vancouver, British Columbia, Canada V5Z 4S6
 Tel: 604-877-6085
 Fax: 604-877-6276
 Email: rholt@bccsc.ca
 Clones are derived from the bovine BAC library CHORI-240
 (http://www.chori.org/bacpac/bovine240.htm). For BAC library
 availability, please contact Pieter de Jong (pdejong@mail.cho.org).
 Clones may be purchased from BACPAC Resources
 (http://www.chori.org/bacpac/ordering-information.htm). This work
 was undertaken as part of the International Bovine BAC Mapping
 Consortium (IBBMC) by CSIRO Livestock Industries, Australia and the
 British Columbia Genome Sciences Centre, Canada.
 Plate: 358 row: G column: 5
 Seq primer: T7
 Class: BAC ends.
FEATURES
 Location/Qualifiers
 1..296
 /organism="Bos taurus"
 /mol_type="genomic DNA"
 /strain="breed: Hereford"
 /db_xref="taxon:9913"
 /clone="CH240_358G5"
 /sex="Male"
 /cell_type="Blood"
 /clone_lib="CHORI-240"
 /notes="vector: PTARBAC1.3; Site 1: Mbol; Site 2: Mbol;
 Hereford bull L1 Domino 99375; CHORI-240 Bovine BAC
 library (Male) produced by Pieter de Jong"

ORIGIN
 Query Match 80.9%; Score 17.8; DB 29; Length 296;
 Best Local Similarity 90.5%; Pred. No. 1.7e+03;
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 TGAGAGAGTTCTGGGTCTCT 21
 Db 19 TTAGAGAGTTCTGGGTCTCT 39

RESULT 13
BH834762
LOCUS
 BH834762 464 bp DNA linear GSS 20-MAY-2002
DEFINITION
 BACP77-Cl2.z Pristionchus pacificus BAC ends Pristionchus pacificus
 genomic, genomic survey sequence.
ACCESSION
 BH834762
VERSION
 BH834762.1 GI:21036033
KEYWORDS
 GSS.
SOURCE
 Pristionchus pacificus
ORGANISM
 Pristionchus pacificus
 Eukaryota; Metazoa; Nematoda; Chromadorea; Diplogasterida;
 Neodiplogasteridae; Pristionchus.
REFERENCE
AUTHORS
 1 (bases 1 to 464)
 Srinivasan, J., Sinz, W., Lanz, C., Brand, A., Nandakumar, R.,
 Raddatz, G., Witte, H., Keller, H., Kipping, I., Pires da Silva, A.,
 Jesse, T., Millare, J., de Both, M., Schuster, S.C. and Sommer, R.J.
TITLE
 A BAC-based genetic linkage map of the nematode Pristionchus
 pacificus
JOURNAL
 Unpublished (2002)

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COMMENT      Contact: Sommer RJ
              Evolutionary Biology
              Max-Planck-Institute for Developmental Biology
              Spemannstr. 37-39, Tuebingen D-72076, Germany
              Tel: 00497071601371
              Fax: 00497071601498
              Email: ralf.sommer@tuebingen.mpg.de
              Class: BAC ends.
              Location/Qualifiers
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              /organism="Pristionchus pacificus"
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Best Local Similarity 90.5%; Pred. No. 1.9e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 TGAGAGAGTTCTGGGTGTCCT 21
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Db 315 TGAGAGAGTTATGGCTGTCCT 335
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RESULT 14
CF606764
LOCUS      CF606764      498 bp      mRNA      linear      EST 30-SEP-2003
DEFINITION GEMMAC1_000158 Grape Bud pSPORT1 Library Vitis vinifera cDNA 5',
ACCESSION  CF606764
VERSION     CF606764.1 GI:37187411
KEYWORDS    EST.
SOURCE      Vitis vinifera
ORGANISM    Vitis vinifera
REFERENCE   1 (bases 1 to 498)
AUTHORS     Moser,C., Segala,C., Fontana,P., Salakhudinov,I., Gatto,P.,
            Pindo,M., Zyprian,E., Toepfer,R., Grando,M.S. and Velasco,R.
TITLE       Expressed sequence tags from different organs of Vitis vinifera
JOURNAL     Unpublished (2003)
COMMENT     Contact: Moser C
            Laboratorio di Genetica Molecolare
            Istituto Agrario di San Michele all'Adige (IASMA)
            via E. Mach 1, San Michele all'Adige (TN), I-38010, Italia
            Tel: 0039-0461-615314
            Fax: 0039-0461-650956
            Email: claudio.moser@ismaa.it
            The sequencing work has been funded by the 'Fondazione Cassa di
            Risparmio di Trento e Rovereto'
            High quality sequence stop: 498.
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              /db_xref="taxon:29760"
              /sex="Hermaphrodite"
              /dev_stage="bud swelling"
              /lab_host="DH103"
              /clone_lib="Grape Bud pSPORT1 Library"
              /note="Organ: Bud; Vector: pSPORT1; Site_1: NotI; Site_2:
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ORIGIN
Query Match      80.9%; Score 17.8; DB 14; Length 498;
Best Local Similarity 90.5%; Pred. No. 2e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2 GAGAGAGTTCTGGGTGTCCTA 22
      |||||

COMMENT      Contact: Sommer RJ
              Evolutionary Biology
              Max-Planck-Institute for Developmental Biology
              Spemannstr. 37-39, Tuebingen D-72076, Germany
              Tel: 00497071601371
              Fax: 00497071601498
              Email: ralf.sommer@tuebingen.mpg.de
              Class: BAC ends.
              Location/Qualifiers
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              /organism="Pristionchus pacificus"
              /mol_type="genomic DNA"
              /strain="var. California"
              /db_xref="taxon:54126"
              /clone_lib="Pristionchus pacificus BAC ends"
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Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 TGAGAGAGTTCTGGGTGTCCT 21
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Db 315 TGAGAGAGTTATGGCTGTCCT 335
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Search completed: February 20, 2004, 01:41:44
Job time : 149.664 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 21:32:00 ; Search time 3.56994 Seconds
(without alignments)
3419.919 Million cell updates/sec

Title: US-09-939-853A-142

Perfect score: 22

Sequence: 1 TGAGAGAGTCTGGGTGCTCTA 22

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

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5: /cgn2_6/ptodata/2/ina/PCUS-COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	16.4	74.5	1273	3	US-08-725-758A-3
3	16.4	74.5	1373	3	US-08-725-758A-1
C 4	16.2	73.6	618	4	US-09-621-976-788
5	16.2	73.6	2713	2	US-08-916-901-6
6	16.2	73.6	2713	4	US-09-154-602-6
C 7	15.8	71.8	274	4	US-09-313-294A-5461
C 8	15.8	71.8	283	4	US-09-313-294A-4815
C 9	15.8	71.8	288	4	US-09-313-294A-809
C 10	15.8	71.8	288	4	US-09-313-294A-2911
11	15.8	71.8	835	4	US-09-833-381-1328
12	15.8	71.8	2081	4	US-09-853-839-7
13	15.8	71.8	2103	4	US-09-853-839-5
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17	15.8	71.8	2806	4	US-09-653-839-9
18	15.8	71.8	3138	4	US-09-622-880B-16
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20	15.6	70.9	331	4	US-08-621-976-11814
21	15.6	70.9	331	4	US-08-621-976-11984
22	15.6	70.9	344	4	US-09-621-976-12361
23	15.6	70.9	344	4	US-09-621-976-13537
24	15.6	70.9	7400	1	US-07-674-852-1
25	15.6	70.9	7400	3	US-08-473-185-1
26	15.6	70.9	7400	3	US-09-171-387-3
27	15.6	70.9	9573	4	US-09-220-132-168

28 15.4 70.0 2972 2 US-08-720-484A-3 Sequence 3, Appli
29 15.4 70.0 2972 3 US-08-953-823A-3 Sequence 3, Appli
30 15.4 70.0 2972 4 US-09-398-239-3 Sequence 3, Appli
31 15.4 70.0 2972 4 US-09-560-876A-3 Sequence 3, Appli
C 32 15.4 70.0 3301 4 US-09-148-545-66 Sequence 66, Appli
33 15.2 69.1 747 4 US-08-630-915A-39 Sequence 39, Appli
C 34 15.2 69.1 1167 4 US-09-679-686B-9 Sequence 9, Appli
C 35 15.2 69.1 1472 1 US-08-123-181A-9 Sequence 9, Appli
C 36 15.2 69.1 1558 4 US-08-483-278-9 Sequence 9, Appli
C 37 15.2 69.1 1472 1 US-08-123-030-7 Sequence 7, Appli
38 15.2 69.1 1558 4 US-08-691-563C-52 Sequence 52, Appli
39 15.2 69.1 2389 4 US-08-374-766-52 Sequence 52, Appli
C 40 15.2 69.1 2389 4 US-08-979-847B-48 Sequence 48, Appli
C 41 15.2 69.1 2464 4 US-09-620-312D-448 Sequence 448, App
C 42 15.2 69.1 2584 3 US-08-758-662-8 Sequence 8, Appli
C 43 15.2 69.1 2873 4 US-08-630-915A-193 Sequence 193, App
C 44 15.2 69.1 2905 4 US-09-595-684B-24 Sequence 24, Appli
C 45 15.2 69.1 3051 4 US-09-409-604-1 Sequence 1, Appli

ALIGNMENTS

RESULT 1

US-09-489-039A-3698
; Sequence 3698, Application US/09489039A
; Patent No. 6610836

; GENERAL INFORMATION:

; APPLICANT: Gary Breton et. al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

; CURRENT APPLICATION NUMBER: US/09/489,039A

; CURRENT FILING DATE: 2000-01-27

; PRIOR APPLICATION NUMBER: US 60/117,747

; PRIOR FILING DATE: 1999-01-29

; NUMBER OF SEQ ID NOS: 14342

; SEQ ID NO 3698

; LENGTH: 1245

; TYPE: DNA

; ORGANISM: Klebsiella pneumoniae

US-09-489-039A-3698

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Best Local Similarity 86.4%; Pred. No. 30;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 TGAGAGAGTCTGGGTGCTCTA 22
Db 800 TGAGCGATTCTGGATGCTCTA 821

RESULT 2

US-08-725-758A-3
; Sequence 3, Application US/08725758A
; Patent No. 6160108

; GENERAL INFORMATION:

; APPLICANT: Reed, Guy

; APPLICANT: Clement, Christophe Y.

; TITLE OF INVENTION: NOVEL PLATELET ACTIVATION PROTEIN

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson P.C.

; STREET: 225 Franklin Street

; CITY: Boston

; STATE: MA

; COUNTRY: USA

; ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSEQ Version 2.0


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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/725,758A
; FILING DATE: 04-OCT-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/005,074
; FILING DATE: 06-OCT-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 05433/020001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1273 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 44...1273
; US-08-725-758A-3

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Best Local Similarity 94.4%; Pred. No. 71;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCGGGTGT 18
Db 372 TGAGAGAGTTCGGGTGT 389

RESULT 3
US-08-725-758A-1
; Sequence 1, Application US/08725758A
; Patent No. 6160108
; GENERAL INFORMATION:
; APPLICANT: Reed, Guy
; TITLE OF INVENTION: NOVEL PLATELET ACTIVATION PROTEIN
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; FILING DATE: 04-OCT-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/005,074
; FILING DATE: 06-OCT-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Fraser, Janis K.
; REGISTRATION NUMBER: 34,819
; REFERENCE/DOCKET NUMBER: 05433/020001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-542-5070
; TELEFAX: 617-542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1373 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 44...1321
; US-08-725-758A-1

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Best Local Similarity 94.4%; Pred. No. 72;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCGGGTGT 18
Db 372 TGAGAGAGTTCGGGTGT 389

RESULT 4
US-09-621-976-788/c
; Sequence 788, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S. J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 788
; LENGTH: 618
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 306...617
; US-09-621-976-788

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Best Local Similarity 85.7%; Pred. No. 83;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCGGGTGTCT 21
Db 540 TCAGAGGGTTCGGGTGTCT 520

RESULT 5
US-08-916-901-6
; Sequence 6, Application US/08916901
; Patent No. 5892012
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; APPLICANT: Shah, Purvi
; TITLE OF INVENTION: RAB PROTEINS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Dr.
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0

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Indels	0;	Gaps	0;		
QY	1	TCAGAGAGTTCTGGGTGTCCT 21			
DB	2401	TCAGTGCAGTTTGGATGTCCT 2421			
<p>RESULT 7</p> <p>US-09-313-294A-5461/c</p> <p>Sequence 5461, Application US/09313294A</p> <p>Patent No. 6476212</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: Lalgudi, Raghunath V.</p> <p>APPLICANT: Ito, Laura Y.</p> <p>APPLICANT: Sherman, Bradley K.</p> <p>TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR</p> <p>FILE REFERENCE: PL-0017 US</p> <p>CURRENT APPLICATION NUMBER: US/09/313,294A</p> <p>CURRENT FILING DATE: 1999-05-14</p> <p>NUMBER OF SEQ ID NOS: 7600</p> <p>SOFTWARE: PERL Program</p> <p>SEQ ID NO 5461</p> <p>LENGTH: 274</p> <p>TYPE: DNA</p> <p>ORGANISM: Zea mays</p> <p>FEATURE:</p> <p>NAME/KEY: misc feature</p> <p>OTHER INFORMATION: Incyte ID No. 6476212 700350185H1</p> <p>US-09-313-294A-5461</p>					
Query Match	71.8%;	Score 15.8;	DB 4;	Length	274;
Best Local Similarity	89.5%;	Pred. No. 1.2e+02;			
Matches	17;	Conservative	0;	Mismatches	2;
Indels	0;	Gaps	0;		
QY	1	TCAGAGAGTTCTGGGTGTC 19			
DB	36	TCATAGAGTTCTGGGTGTC 18			
<p>RESULT 8</p> <p>US-09-313-294A-4815/c</p> <p>Sequence 4815, Application US/09313294A</p> <p>Patent No. 6476212</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: Lalgudi, Raghunath V.</p> <p>APPLICANT: Ito, Laura Y.</p> <p>APPLICANT: Sherman, Bradley K.</p> <p>TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR</p> <p>FILE REFERENCE: PL-0017 US</p> <p>CURRENT APPLICATION NUMBER: US/09/313,294A</p> <p>CURRENT FILING DATE: 1999-05-14</p> <p>NUMBER OF SEQ ID NOS: 7600</p> <p>SOFTWARE: PERL Program</p> <p>SEQ ID NO 4815</p> <p>LENGTH: 283</p> <p>TYPE: DNA</p> <p>ORGANISM: Zea mays</p> <p>FEATURE:</p> <p>NAME/KEY: misc feature</p> <p>OTHER INFORMATION: Incyte ID No. 6476212 700349077H1</p> <p>NAME/KEY: unsure</p> <p>LOCATION: 14, 132</p> <p>OTHER INFORMATION: a, t, c, g, or other</p> <p>US-09-313-294A-4815</p>					
Query Match	71.8%;	Score 15.8;	DB 4;	Length	283;
Best Local Similarity	89.5%;	Pred. No. 1.2e+02;			
Matches	17;	Conservative	0;	Mismatches	2;
Indels	0;	Gaps	0;		
QY	1	TCAGAGAGTTCTGGGTGTC 19			

Query Match	Best Local Similarity	Score	DB 1	DB 2	Length	DB 3	DB 4	DB 5	DB 6	DB 7	DB 8	DB 9	DB 10	DB 11	DB 12	DB 13	DB 14	DB 15	DB 16	DB 17	DB 18	DB 19	DB 20	DB 21	DB 22	DB 23	DB 24	DB 25	DB 26	DB 27	DB 28	DB 29	DB 30	DB 31	DB 32	DB 33	DB 34	DB 35	DB 36	DB 37	DB 38	DB 39	DB 40	DB 41	DB 42	DB 43	DB 44	DB 45	DB 46	DB 47	DB 48	DB 49	DB 50	DB 51	DB 52	DB 53	DB 54	DB 55	DB 56	DB 57	DB 58	DB 59	DB 60	DB 61	DB 62	DB 63	DB 64	DB 65	DB 66	DB 67	DB 68	DB 69	DB 70	DB 71	DB 72	DB 73	DB 74	DB 75	DB 76	DB 77	DB 78	DB 79	DB 80	DB 81	DB 82	DB 83	DB 84	DB 85	DB 86	DB 87	DB 88	DB 89	DB 90	DB 91	DB 92	DB 93	DB 94	DB 95	DB 96	DB 97	DB 98	DB 99	DB 100	DB 101	DB 102	DB 103	DB 104	DB 105	DB 106	DB 107	DB 108	DB 109	DB 110	DB 111	DB 112	DB 113	DB 114	DB 115	DB 116	DB 117	DB 118	DB 119	DB 120	DB 121	DB 122	DB 123	DB 124	DB 125	DB 126	DB 127	DB 128	DB 129	DB 130	DB 131	DB 132	DB 133	DB 134	DB 135	DB 136	DB 137	DB 138	DB 139	DB 140	DB 141	DB 142	DB 143	DB 144	DB 145	DB 146	DB 147	DB 148	DB 149	DB 150	DB 151	DB 152	DB 153	DB 154	DB 155	DB 156	DB 157	DB 158	DB 159	DB 160	DB 161	DB 162	DB 163	DB 164	DB 165	DB 166	DB 167	DB 168	DB 169	DB 170	DB 171	DB 172	DB 173	DB 174	DB 175	DB 176	DB 177	DB 178	DB 179	DB 180	DB 181	DB 182	DB 183	DB 184	DB 185	DB 186	DB 187	DB 188	DB 189	DB 190	DB 191	DB 192	DB 193	DB 194	DB 195	DB 196	DB 197	DB 198	DB 199	DB 200	DB 201	DB 202	DB 203	DB 204	DB 205	DB 206	DB 207	DB 208	DB 209	DB 210	DB 211	DB 212	DB 213	DB 214	DB 215	DB 216	DB 217	DB 218	DB 219	DB 220	DB 221	DB 222	DB 223	DB 224	DB 225	DB 226	DB 227	DB 228	DB 229	DB 230	DB 231	DB 232	DB 233	DB 234	DB 235	DB 236	DB 237	DB 238	DB 239	DB 240	DB 241	DB 242	DB 243	DB 244	DB 245	DB 246	DB 247	DB 248	DB 249	DB 250	DB 251	DB 252	DB 253	DB 254	DB 255	DB 256	DB 257	DB 258	DB 259	DB 260	DB 261	DB 262	DB 263	DB 264	DB 265	DB 266	DB 267	DB 268	DB 269	DB 270	DB 271	DB 272	DB 273	DB 274	DB 275	DB 276	DB 277	DB 278	DB 279	DB 280	DB 281	DB 282	DB 283	DB 284	DB 285	DB 286	DB 287	DB 288	DB 289	DB 290	DB 291	DB 292	DB 293	DB 294	DB 295	DB 296	DB 297	DB 298	DB 299	DB 300	DB 301	DB 302	DB 303	DB 304	DB 305	DB 306	DB 307	DB 308	DB 309	DB 310	DB 311	DB 312	DB 313	DB 314	DB 315	DB 316	DB 317	DB 318	DB 319	DB 320	DB 321	DB 322	DB 323	DB 324	DB 325	DB 326	DB 327	DB 328	DB 329	DB 330	DB 331	DB 332	DB 333	DB 334	DB 335	DB 336	DB 337	DB 338	DB 339	DB 340	DB 341	DB 342	DB 343	DB 344	DB 345	DB 346	DB 347	DB 348	DB 349	DB 350	DB 351	DB 352	DB 353	DB 354	DB 355	DB 356	DB 357	DB 358	DB 359	DB 360	DB 361	DB 362	DB 363	DB 364	DB 365	DB 366	DB 367	DB 368	DB 369	DB 370	DB 371	DB 372	DB 373	DB 374	DB 375	DB 376	DB 377	DB 378	
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Db      259 TGATAGAGTTCTGGGTGGC 241
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RESULT 9
US-09-313-294A-809/c
; Sequence 809, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath V.
; APPLICANT: Ito, Laura Y.
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313,294A
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL Program
; SEQ ID NO 809
; LENGTH: 288
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6476212 700549871H1
US-09-313-294A-809

Query Match      71.8%; Score 15.8; DB 4; Length 288;
Best Local Similarity 89.5%; Pred. No. 1.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 TGAGAGAGTTCTGGGTGTC 19
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Db      287 TGATAGAGTTCTGGGTGGC 269

RESULT 10
US-09-313-294A-2911/c
; Sequence 2911, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath V.
; APPLICANT: Ito, Laura Y.
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313,294A
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL Program
; SEQ ID NO 2911
; LENGTH: 288
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6476212 700553476H1
US-09-313-294A-2911

Query Match      71.8%; Score 15.8; DB 4; Length 288;
Best Local Similarity 89.5%; Pred. No. 1.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 TGAGAGAGTTCTGGGTGTC 19
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Db      260 TGATAGAGTTCTGGGTGGC 242

RESULT 11
US-09-833-381-1328
; Sequence 1328, Application US/09833381
; Patent No. 6672186
; GENERAL INFORMATION:
; APPLICANT: Robison, Keith E.
; TITLE OF INVENTION: No. 6672186el Nucleic Acid and Protein Homologs
; FILE REFERENCE: 5800-119
; CURRENT APPLICATION NUMBER: US/09/833,381
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 09/516,448
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 2050
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1328
; LENGTH: 835
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-833-381-1328

Query Match      71.8%; Score 15.8; DB 4; Length 835;
Best Local Similarity 89.5%; Pred. No. 1.3e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      3 AGAGAGTTCTGGGTGTCCT 21
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Db      755 AGACAGTTCTGGGTGTCCT 773

RESULT 12
US-09-653-839-7
; Sequence 7, Application US/09653839
; Patent No. 6433153
; GENERAL INFORMATION:
; APPLICANT: Donoho, Gregory
; APPLICANT: Turner, C. Alexander Jr.
; APPLICANT: Nehls, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6433153el Human Calcium Dependent Proteases
; FILE REFERENCE: LEX-0038-USA
; CURRENT APPLICATION NUMBER: US/09/653,839
; CURRENT FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: US 60/152,057
; PRIOR FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 2061
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-653-839-7

Query Match      71.8%; Score 15.8; DB 4; Length 2061;
Best Local Similarity 89.5%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      4 GAGAGTTCTGGGTGTCCTTA 22
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Db      956 GGGAGTTCTGGATGTCCTA 974

RESULT 13
US-09-653-839-5
; Sequence 5, Application US/09653839
; Patent No. 6433153
; GENERAL INFORMATION:
; APPLICANT: Donoho, Gregory
; APPLICANT: Turner, C. Alexander Jr.
; APPLICANT: Nehls, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6433153el Human Calcium Dependent Proteases
; FILE REFERENCE: LEX-0038-USA
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; CURRENT APPLICATION NUMBER: US/09/653,839
; CURRENT FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: US 60/152,057
; PRIOR FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2109
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-653-839-5

Query Match 71.8%; Score 15.8; DB 4; Length 2109;
Best Local Similarity 89.5%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GAGAGTTCTGGGTCTCCTA 22
Db 956 GGGAGTTCTGGATGTCCTA 974

RESULT 14

US-09-653-839-3
; Sequence 3, Application US/09653839
; Patent No. 6433153
; GENERAL INFORMATION:
; APPLICANT: Donoho, Gregory
; APPLICANT: Turner, C. Alexander Jr.
; APPLICANT: Nehls, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6433153el Human Calcium Dependent Proteases
; TITLE OF INVENTION: and Polynucleotides Encoding the Same
; FILE REFERENCE: LEX-0038-USA
; CURRENT APPLICATION NUMBER: US/09/653,839
; CURRENT FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: US 60/152,057
; PRIOR FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-653-839-3

Query Match 71.8%; Score 15.8; DB 4; Length 2172;
Best Local Similarity 89.5%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GAGAGTTCTGGGTCTCCTA 22
Db 1067 GGGAGTTCTGGATGTCCTA 1085

RESULT 15

US-09-653-839-1
; Sequence 1, Application US/09653839
; Patent No. 6433153
; GENERAL INFORMATION:
; APPLICANT: Donoho, Gregory
; APPLICANT: Turner, C. Alexander Jr.
; APPLICANT: Nehls, Michael
; APPLICANT: Friedrich, Glenn
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Sands, Arthur T.
; TITLE OF INVENTION: No. 6433153el Human Calcium Dependent Proteases
; TITLE OF INVENTION: and Polynucleotides Encoding the Same
; FILE REFERENCE: LEX-0038-USA
; CURRENT APPLICATION NUMBER: US/09/653,839
; CURRENT FILING DATE: 2000-09-01
; PRIOR APPLICATION NUMBER: US 60/152,057

; PRIOR FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2220
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-653-839-1

Query Match 71.8%; Score 15.8; DB 4; Length 2220;
Best Local Similarity 89.5%; Pred. No. 1.5e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 GAGAGTTCTGGGTCTCCTA 22
Db 1067 GGGAGTTCTGGATGTCCTA 1085

Search completed: February 20, 2004, 01:45:12
Job time : 4.56994 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2004, 23:23:34 ; Search time 52.8809 Seconds
(without alignments)
1456.787 Million cell updates/sec

Title: US-09-939-853A-142

Perfect score: 22

Sequence: 1 tsagagattctgggtgctcta 22

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2308684 seqs, 1750822206 residues

Total number of hits satisfying chosen parameters: 4617368

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

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2: /cgn2_6/prodata/2/pubpna/PCT_NEW_PUB.seq:
3: /cgn2_6/prodata/2/pubpna/US06_NEW_PUB.seq:
4: /cgn2_6/prodata/2/pubpna/US06_PUBCOMB.seq:
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13: /cgn2_6/prodata/2/pubpna/US10A_PUBCOMB.seq:
14: /cgn2_6/prodata/2/pubpna/US10B_PUBCOMB.seq:
15: /cgn2_6/prodata/2/pubpna/US10C_PUBCOMB.seq:
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18: /cgn2_6/prodata/2/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	ID	Description
1	22	100.0	864	10	US-09-814-353-21302
2	20.4	92.7	763	9	Sequence 21302, A
3	17.8	80.9	2084	15	Sequence 953, App
4	17.4	79.1	2442	15	Sequence 1362, Ap
5	17.4	79.1	2466	15	Sequence 85, Appl
6	17.4	79.1	2789	15	Sequence 395, App
7	17.2	78.2	545	15	Sequence 22, Appl
8	17.2	78.2	641	15	Sequence 284738
9	17.2	78.2	904	15	Sequence 131511
10	17.2	78.2	1183	12	Sequence 131512
11	17.2	78.2	1182	12	Sequence 37180, A
12	17.2	78.2	1182	12	Sequence 37180, A
13	17.2	78.2	1185	12	Sequence 39447
14	16.8	76.4	2394	15	Sequence 23260, A
15	16.8	76.4	301692	15	Sequence 1043, Ap
					Sequence 11, Appl

15	16.4	74.5	1191	15	US-10-264-237-915
16	16.4	74.5	1357	10	US-09-890-688-85
17	16.4	74.5	1621	9	US-09-729-674-171
18	16.4	74.5	2200	15	US-10-108-260A-1744
19	16.4	74.5	2560	12	US-10-424-599-130837
20	16.4	74.5	3128	10	US-09-919-039-373
21	16.4	74.5	3128	14	US-10-101-510-583
22	16.4	74.5	27684	15	US-10-034-650-28
23	16.4	74.5	27684	15	US-10-029-386-17034
24	16.2	73.6	179	14	US-10-029-386-19880
25	16.2	73.6	279	14	US-09-864-761-19936
26	16.2	73.6	294	9	US-09-796-692-9356
27	16.2	73.6	297	14	US-10-040-862-9356
28	16.2	73.6	297	15	US-10-057-475B-9356
29	16.2	73.6	297	15	US-10-154-884B-9356
30	16.2	73.6	297	15	US-09-864-761-3157
31	16.2	73.6	444	9	US-10-027-632-56117
32	16.2	73.6	457	15	US-10-027-632-299308
33	16.2	73.6	457	15	US-10-027-632-61326
34	16.2	73.6	502	15	US-10-029-386-20660
35	16.2	73.6	525	14	US-09-951-936-1497
36	16.2	73.6	542	10	US-10-029-386-6149
37	16.2	73.6	542	14	US-10-029-386-22402
38	16.2	73.6	555	14	US-10-029-386-3334
39	16.2	73.6	555	14	US-10-029-386-8674
40	16.2	73.6	593	14	US-10-029-386-10951
41	16.2	73.6	596	14	US-10-027-632-213371
42	16.2	73.6	620	15	US-10-027-632-213372
43	16.2	73.6	620	15	US-10-027-632-275671
44	16.2	73.6	647	15	Sequence 915, App
45	16.2	73.6			Sequence 85, Appl
					Sequence 171, App
					Sequence 1744, Ap
					Sequence 130837
					Sequence 373, App
					Sequence 583, App
					Sequence 28, Appl
					Sequence 17034, A
					Sequence 19880, A
					Sequence 19336, A
					Sequence 9356, Ap
					Sequence 9356, Ap
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					Sequence 3157, Ap
					Sequence 56117, A
					Sequence 299308, A
					Sequence 61326, A
					Sequence 20660, A
					Sequence 1497, Ap
					Sequence 6149, Ap
					Sequence 22402, A
					Sequence 24654, A
					Sequence 3334, Ap
					Sequence 8674, Ap
					Sequence 10951, A
					Sequence 213371
					Sequence 213372
					Sequence 275671

ALIGNMENTS

RESULT 1

US-09-814-353-21302
; Sequence 21302, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21302
; LENGTH: 864
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3, 32, 862, 863, 864
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-21302

Query Match 100.0%; Score 22; DB 10; Length 864;
 Best Local Similarity 100.0%; Pred. No. 0.34; 0; Indels 0; Gaps 0;
 Matches 22; Conservative 0; Mismatches 0;

Qy 1 TGAGAGAGTCTGGGTGCTCTA 22
 Db 276 TGAGAGAGTCTGGGTGCTCTA 297

RESULT 2

US-09-867-550-953
 ; Sequence 953, Application US/09867550
 ; Patent No. US20020082206A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Leach, Martin D.
 ; APPLICANT: Mehraban, Fuad,
 ; APPLICANT: Conley, Pamela
 ; APPLICANT: Law, Debbie
 ; APPLICANT: Topper, James
 ; TITLE OF INVENTION: No. US20020082206A1 Polynucleotides from Atherogenic Cells and
 ; FILE REFERENCE: 21402-013 (Cura-313)
 ; CURRENT APPLICATION NUMBER: US/09/867,550
 ; CURRENT FILING DATE: 2001-09-20
 ; PRIOR APPLICATION NUMBER: USSN 60/208,427
 ; PRIOR FILING DATE: 2000-05-30
 ; NUMBER OF SEQ ID NOS: 2125
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 953
 ; LENGTH: 763
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-867-550-953

Query Match 92.7%; Score 20.4; DB 9; Length 763;
 Best Local Similarity 95.5%; Pred. No. 2.1;
 Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TGAGAGAGTCTGGGTGCTCTA 22
 Db 112 TGAGAGAGTCTGGGTGCTCTA 133

RESULT 3

US-10-108-260A-1362/c
 ; Sequence 1362, Application US/10108260A
 ; Publication No. US20040005560A1
 ; GENERAL INFORMATION:
 ; APPLICANT: HELIX RESEARCH INSTITUTE
 ; TITLE OF INVENTION: No. US20040005560A1 full length cDNA
 ; FILE REFERENCE: H1-A0106
 ; CURRENT APPLICATION NUMBER: US/10/108,260A
 ; CURRENT FILING DATE: 2002-03-27
 ; NUMBER OF SEQ ID NOS: 5458
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1362
 ; LENGTH: 2064
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-108-260A-1362

Query Match 80.9%; Score 17.8; DB 15; Length 2064;
 Best Local Similarity 90.5%; Pred. No. 41;
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TGAGAGAGTCTGGGTGCTCT 21
 Db 159 TGAGAGAGTCTGGGTGCTCT 139

RESULT 4

US-10-080-334-85
 ; Sequence 85, Application US/10080334

Publication No. US20040002584A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Pena, Carol E. A.
 ; APPLICANT: Shimkets, Richard A.
 ; APPLICANT: Li, Li
 ; APPLICANT: Shenov, Suresh G
 ; APPLICANT: Kekuda, Ramesh
 ; APPLICANT: Spytek, Kimberly A.
 ; APPLICANT: Vernet, Corine A. M.
 ; APPLICANT: Malyankar, Uriel M.
 ; APPLICANT: Guo, Xiaojia
 ; APPLICANT: Gusev, Vladimir Y
 ; APPLICANT: Casman, Stacie J
 ; APPLICANT: Boldog, Ferenc L
 ; APPLICANT: Furtak, Katarzyna
 ; APPLICANT: Tchernev, Velizar T
 ; APPLICANT: Patturajan, Meera
 ; APPLICANT: Gangolli, Baha A
 ; APPLICANT: Padigaru, Muralidhara
 ; APPLICANT: Liu, Xiaohong
 ; APPLICANT: Baumgartner, Jason C.
 ; APPLICANT: Gerlach, Valerie
 ; APPLICANT: Spaderna, Steven K
 ; APPLICANT: Zehrsen, Bryan D
 ; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
 ; FILE REFERENCE: 21402-275
 ; CURRENT APPLICATION NUMBER: US/10/080,334
 ; CURRENT FILING DATE: 2002-02-21
 ; PRIOR APPLICATION NUMBER: 60/270,523
 ; PRIOR FILING DATE: 2001-02-21
 ; PRIOR APPLICATION NUMBER: 60/322,712
 ; PRIOR FILING DATE: 2001-09-17
 ; PRIOR APPLICATION NUMBER: 60/311,980
 ; PRIOR FILING DATE: 2001-08-13
 ; PRIOR APPLICATION NUMBER: 60/330,307
 ; PRIOR FILING DATE: 2001-10-18
 ; PRIOR APPLICATION NUMBER: 60/278,796
 ; PRIOR FILING DATE: 2001-03-26
 ; PRIOR APPLICATION NUMBER: 60/281,521
 ; PRIOR FILING DATE: 2001-04-04
 ; PRIOR APPLICATION NUMBER: 60/276,677
 ; PRIOR FILING DATE: 2001-03-16
 ; PRIOR APPLICATION NUMBER: 60/311,595
 ; PRIOR FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: 60/270,220
 ; PRIOR FILING DATE: 2001-02-21
 ; PRIOR APPLICATION NUMBER: 60/274,295
 ; PRIOR FILING DATE: 2001-03-08
 ; PRIOR APPLICATION NUMBER: 60/318,526
 ; PRIOR FILING DATE: 2001-09-10
 ; PRIOR APPLICATION NUMBER: 60/286,548
 ; PRIOR FILING DATE: 2001-04-25
 ; PRIOR APPLICATION NUMBER: 60/291,765
 ; PRIOR FILING DATE: 2001-05-17
 ; PRIOR APPLICATION NUMBER: 60/270,797
 ; PRIOR FILING DATE: 2001-02-23
 ; PRIOR APPLICATION NUMBER: 60/276,400
 ; PRIOR FILING DATE: 2001-03-16
 ; PRIOR APPLICATION NUMBER: 60/270,810
 ; PRIOR FILING DATE: 2001-02-23
 ; NUMBER OF SEQ ID NOS: 388
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 85
 ; LENGTH: 2442
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-080-334-85

Query Match 79.1%; Score 17.4; DB 15; Length 2442;
 Best Local Similarity 94.7%; Pred. No. 64;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Qy 4 GAGAGTTCTGGGTGTCCTA 22
      |||||
Db 1116 GAGAGTTCTGGGTGTCCTA 1134

RESULT 5
US-10-159-563-396
; Sequence 396, Application US/10159563
; Publication No. US20040009154A1
; GENERAL INFORMATION:
; APPLICANT: Khan, Javed
; APPLICANT: Ringner, Markus
; APPLICANT: Peterson, Carsten
; APPLICANT: Meltzer, Paul
; TITLE OF INVENTION: SELECTIONS OF GENES AND METHODS OF USING THE SAME FOR
; TITLE OF INVENTION: DIAGNOSIS AND FOR TARGETING THE THERAPY OF SELECT CANCERS
; FILE REFERENCE: 11613.56US11
; CURRENT APPLICATION NUMBER: US/10/159,563
; CURRENT FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 10/133,937
; PRIOR FILING DATE: 2002-04-25
; NUMBER OF SEQ ID NOS: 444
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 396
; LENGTH: 2466
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-159-563-396

Query Match 79.1%; Score 17.4; DB 15; Length 2466;
Best Local Similarity 94.7%; Pred. No. 64;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 GAGAGTTCTGGGTGTCCTA 22
      |||||
Db 1184 GAGAGTTCTGGGTGTCCTA 1202

RESULT 6
US-10-274-639-22
; Sequence 22, Application US/10274639
; Publication No. US20030232349A1
; GENERAL INFORMATION:
; APPLICANT: INCVTE GENOMICS, INC.
; APPLICANT: DELEGREANE, Angelo M.; GANDHI, Aneena R.
; APPLICANT: HAFALIA, April J.A.; LU, Dyung Aina M.
; APPLICANT: PATTERSON, Chandra; TRIBOLEY, Catherine M.
; APPLICANT: DAS, Debopriya; KALLICK, Deborah A.
; APPLICANT: NGUYEN, Darniel B.; LEE, Ernestine A.
; APPLICANT: KHAN, Farrah A.; YUE, Henry
; APPLICANT: AU-YOUNG, Janice K.; GRIFFIN, Jennifer A.
; APPLICANT: POLICKY, Jennifer L.; RAMKUNAR, Jayalaxmi
; APPLICANT: YANG, Junning; THANGAVELU, Kavitha
; APPLICANT: DING, Li; KEARNEY, Liam
; APPLICANT: BAUGHN, Mariah R.; BOROWSKY, Mark L.
; APPLICANT: SANJANWALA, Madhusudan M.; YAO, Monique G.
; APPLICANT: BURFORD, Neil; WALIA, Navinder K.
; APPLICANT: LAL, Preeti G.; LEE, Sally
; APPLICANT: TODD, Stephen; LO, Terence P.
; APPLICANT: TANG, Y. Tom; ELLIOTT, Vicki S.
; APPLICANT: AZIMZAI, Yalda; LU, Yan
; TITLE OF INVENTION: PROTEASES
; FILE REFERENCE: PI-0167 USA
; CURRENT APPLICATION NUMBER: US/10/274,639
; CURRENT FILING DATE: 2002-10-18
; PRIOR APPLICATION NUMBER: PCT/US01/22397
; PRIOR FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: US 60/220,063
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: US 60/221,680
; PRIOR FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: US 60/223,544
; PRIOR FILING DATE: 2000-08-04
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; PRIOR APPLICATION NUMBER: US 60/224,717
; PRIOR FILING DATE: 2000-08-11
; PRIOR APPLICATION NUMBER: US 60/225,988
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: US 60/227,568
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: PERL Program
; SEQ ID NO 22
; LENGTH: 2789
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20030232349A1 5155802CB1
US-10-274-639-22

Query Match 79.1%; Score 17.4; DB 15; Length 2789;
Best Local Similarity 94.7%; Pred. No. 64;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 GAGAGTTCTGGGTGTCCTA 22
      |||||
Db 1342 GAGAGTTCTGGGTGTCCTA 1360

RESULT 7
US-10-027-632-284738
; Sequence 284738, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 284738
; LENGTH: 545
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-284738

Query Match 78.2%; Score 17.2; DB 15; Length 545;
Best Local Similarity 86.4%; Pred. No. 79;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 TGAGAGATTCTGGGTGTCCTA 22
      |||||
Db 196 TGAGACATTCTGGGTGTCATA 217

RESULT 8
US-10-027-632-131511/c
; Sequence 131511, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
```

APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR FILING DATE: 2000-07-12 US 60/218,006
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 131511
LENGTH: 641
TYPE: DNA
ORGANISM: Human
US-10-027-632-131511

Query Match 78.2%; Score 17.2; DB 15; Length 641;
Best Local Similarity 86.4%; Pred. No. 80;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGTCCTA 22
|||||
DB 371 TGAGAGACTTCTGGTGACCCA 350

RESULT 9
US-10-027-632-131512
Sequence 131512, Application US/10027632
Publication No. US20030204075A9
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR FILING DATE: 2000-07-12 US 60/218,006
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 131512
LENGTH: 904
TYPE: DNA
ORGANISM: Human
US-10-027-632-131512

Query Match 78.2%; Score 17.2; DB 15; Length 904;
Best Local Similarity 86.4%; Pred. No. 80;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGTCCTA 22
|||||
DB 272 TGAGAGACTTCTGGTGACCCA 293

RESULT 10
US-10-282-122A-37180
Sequence 37180, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Chlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 37180
LENGTH: 1163
TYPE: DNA
ORGANISM: Salmonella paratyphi A
US-10-282-122A-37180

Query Match 78.2%; Score 17.2; DB 12; Length 1163;
Best Local Similarity 85.4%; Pred. No. 80;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TGAGAGAGTTCTGGGTGTCCTA 22
|||||
DB 739 TGAGTGATTTCTGGATGTCCTA 760

RESULT 11
US-10-282-122A-38988
Sequence 38988, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl


```

; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 38588
; LENGTH: 1182
; TYPE: DNA
; ORGANISM: Salmonella typhimurium
US-10-282-122A-38988

Query Match      78.2%; Score 17.2; DB 12; Length 1182;
Best Local Similarity 86.4%; Pred. No. 80;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 TGAGAGAGTTCTGGGTGTCCTA 22
        ||||| ||||| ||||| ||||| |||||
Db      740 TGAGTGATTCTGGATGTCCTA 761

RESULT 12
US-10-282-122A-39447
; Sequence 39447, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931

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; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 39447
; LENGTH: 1182
; TYPE: DNA
; ORGANISM: Salmonella typhi
US-10-282-122A-39447

Query Match      78.2%; Score 17.2; DB 12; Length 1182;
Best Local Similarity 86.4%; Pred. No. 80;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 TGAGAGAGTTCTGGGTGTCCTA 22
        ||||| ||||| ||||| ||||| |||||
Db      740 TGAGTGATTCTGGATGTCCTA 761

RESULT 13
US-10-282-122A-23260
; Sequence 23260, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931

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; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining prior application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 23260
; LENGTH: 1185
; TYPE: DNA
; ORGANISM: Klebsiella pneumoniae
US-10-282-122A-23260

Query Match      78.4%; Score 17.2; DB 12; Length 1185;
Best Local Similarity 86.4%; Pred. No. 80;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 TGAGAGAGTTCTGGGTGTCCTA 22
      |||||
Db      743 TGAGCGATTCTGGAGTGCCTA 764

RESULT 14
US-10-104-047-1043/c
; Sequence 1043, Application US/10104047
; Publication No. US20030236392A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. US20030236392A1e1 full length cdNA
; FILE REFERENCE: HI-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1043
; LENGTH: 2394
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-104-047-1043

Query Match      76.4%; Score 16.8; DB 15; Length 2394;
Best Local Similarity 90.0%; Pred. No. 1.3e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 GAGAGAGTTCTGGGTGTCCT 21
      |||||
Db      1489 GAGAGATTCGAGTGTCAT 1470

RESULT 15
US-10-428-487-11/c
; Sequence 11, Application US/10428487
; Publication No. US20040006780A1
; GENERAL INFORMATION:
; APPLICANT: RASTELLI, LUCA K.
; APPLICANT: GERBER, HANS-PETER
; TITLE OF INVENTION: VEGF-MODULATED GENES AND METHODS EMPLOYING THEM
; FILE REFERENCE: 09800080-0103
; CURRENT APPLICATION NUMBER: US/10/428,487
; CURRENT FILING DATE: 2003-05-02
; PRIOR APPLICATION NUMBER: 09/815,153
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,201
; PRIOR FILING DATE: 2000-03-22
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 301692
; TYPE: DNA
; ORGANISM: Homo sapiens
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US-10-428-487-11
Query Match      76.4%; Score 16.8; DB 15; Length 301692;
Best Local Similarity 90.0%; Pred. No. 1.3e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      3 AGAGAGTTCTGGGTGTCCTA 22
      |||||
Db      69276 AGAGATTGCTGGGTGTCCTA 69257

Search completed: February 20, 2004, 05:59:27
Job time : 59.8809 secs
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